

# FIELD MAINTENANCE PRINT SET

## TABLE OF CONTENTS

D-IA-7011867-0-0

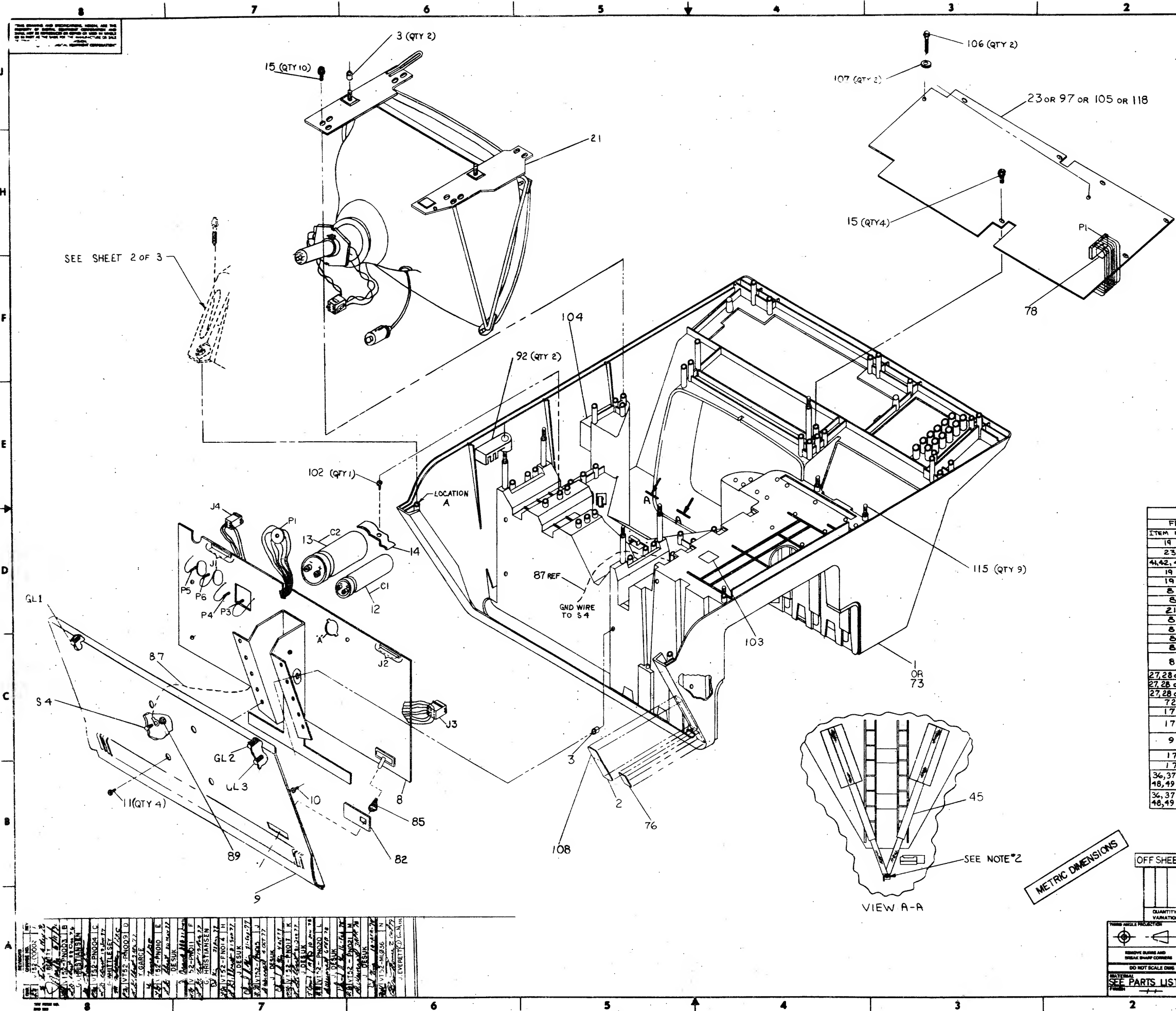
### UNIT VARIATIONS COVERED BY THIS PRINT SET

VT52-CC

# Digital Equipment Corporation

MP00035

EN-01124-10-M878-(327



NOTES:  
1. FOR DRAWING DIRECTORY REFER TO B-DD-VT52-0  
2. MOUNT TO SHELL WITH NUT, SCREW, AND WASHER SUPPLIED WITH C&T GROUNDING ASSY. (ITEM#45).  
3. ITEMS 2 & 106 MAY BE REPLACED IF DAMAGED BY PN 3613210-00, SERIAL TAG, BLANK.

NUMBER	VARIATION
VT52-AA	CURRENT LOOP 115V 60HZ
VT52-AB	CURRENT LOOP 220/240V 50/60 HZ
VT52-AC	CURRENT LOOP 100/127V 50/60 HZ
VT52-AE	EIA 115V 60 HZ
VT52-AF	EIA 220/240V 50/60 HZ
VT52-AH	EIA 100/127V 50/60 HZ
VT52-CA	285B PLUG 115V 60 HZ
VT52-CB	285B PLUG 220/240V 50/60 HZ
VT52-CC	285B PLUG 100/127V 50/60 HZ
VT52-BA	COPIER, CURRENT LOOP 115V 60 HZ
VT52-BB	COPIER, CURRENT LOOP 220/240V 50/60 HZ
VT52-BC	COPIER, CURRENT LOOP 100/127V 50/60 HZ
VT52-BE	COPIER, EIA 115V 60 HZ
VT52-BF	COPIER, EIA 220/240V 50/60 HZ
VT52-BH	COPIER, EIA 100/127V 50/60 HZ
VT52-DA	COPIER, 285B PLUG 115V 60 HZ
VT52-DB	COPIER, 285B PLUG 220/240V 50/60 HZ
VT52-DC	COPIER, 285B PLUG 100/127V 50/60 HZ
VT52-WA	CURRENT LOOP 115V 60 HZ
VT52-WB	CURRENT LOOP 220/240V 50/60 HZ
VT52-WE	EIA 115V 60 HZ
VT52-WF	EIA 220V/240V 50/60 HZ

WIRE TABLE				
FROM	TO	REMARKS		
ITEM NO.	CONN	ITEM NO.	CONN	
19	J1	20	J1	ALL VARIATIONS
23	P1	20	J5	
44, 42, 43	P2	20	J4	
19	P4	8	J1	
19	P3	8	J2	
8	P1	21	CR7	
8	J4	21	P3	
21	D1	8	HOLE "A"	
8	P5	13	C2-	
8	P6	13	C2+	
8	P4	12	C1-	
8	P5	12	C1+	ALL VARIATIONS
8	J3	36, 37, 38	J1	
27, 28 or 29	J1	19	J2	COPIER ONLY
27, 28 or 29	GND	36, 37 or 38	GND	
27, 28 or 29	P1	36, 37 or 38	P2	
72	P1	8	J3	
17	S1	98	S2	S3
17	S3	36, 37 or 38	GND LUG	87
9	S4	36, 37 or 38	GND LUG	87
17	GL 4	9	GL 1	109
17	GL 5	9	GL 2	109
36, 37 or 38	GL 6	9	GL 3	110
48, 49 or 50	GL 7	17	GL 8	110

ITEM NO.	DESCRIPTION	QTY	UNIT
1	SCREW	1	
2	SCREW	1	
3	SCREW	1	
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5	SCREW	1	
6	SCREW	1	
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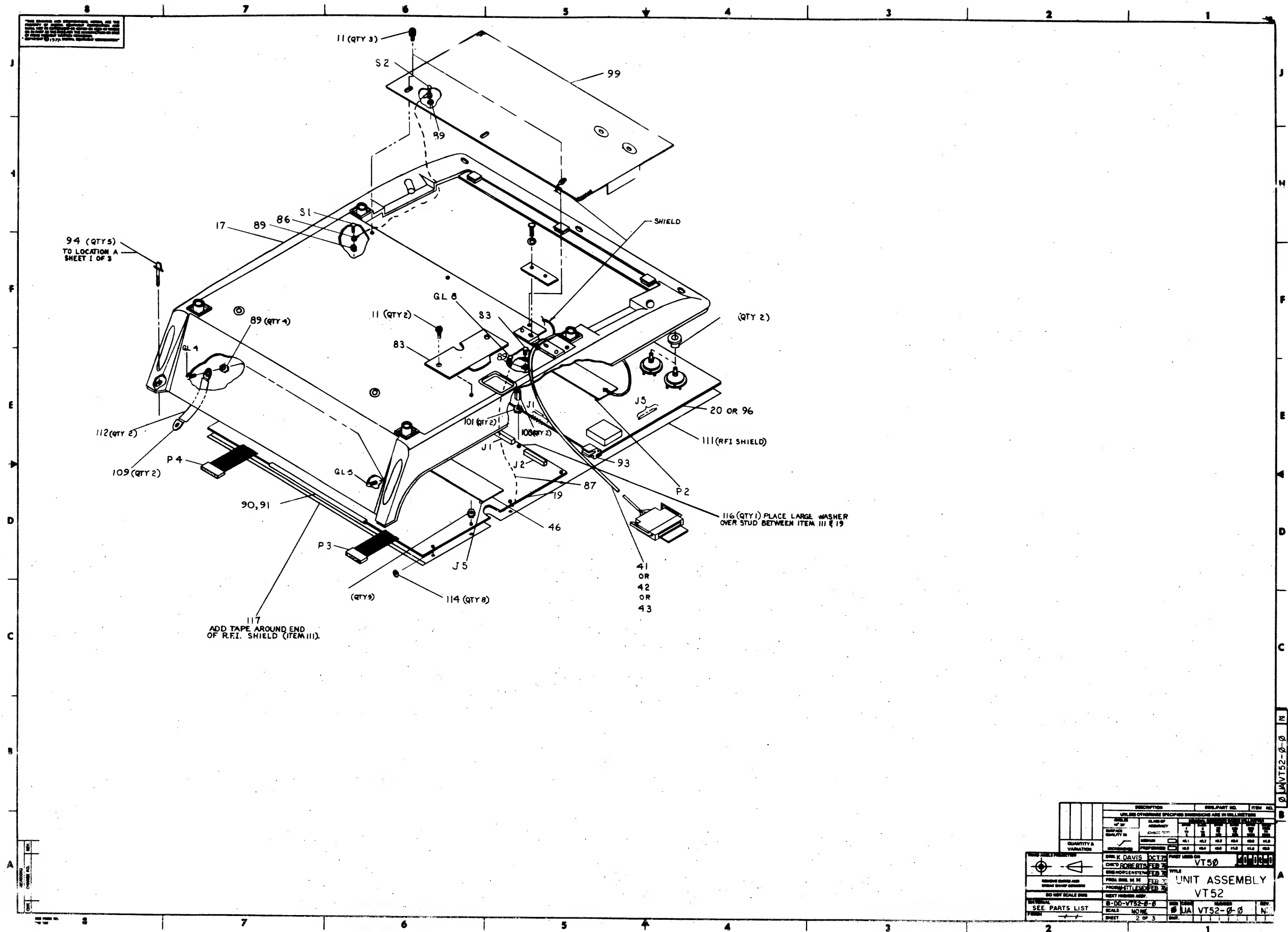
OFF SHEET PARTS LIST REFER TO C-PL-VT52-0-0

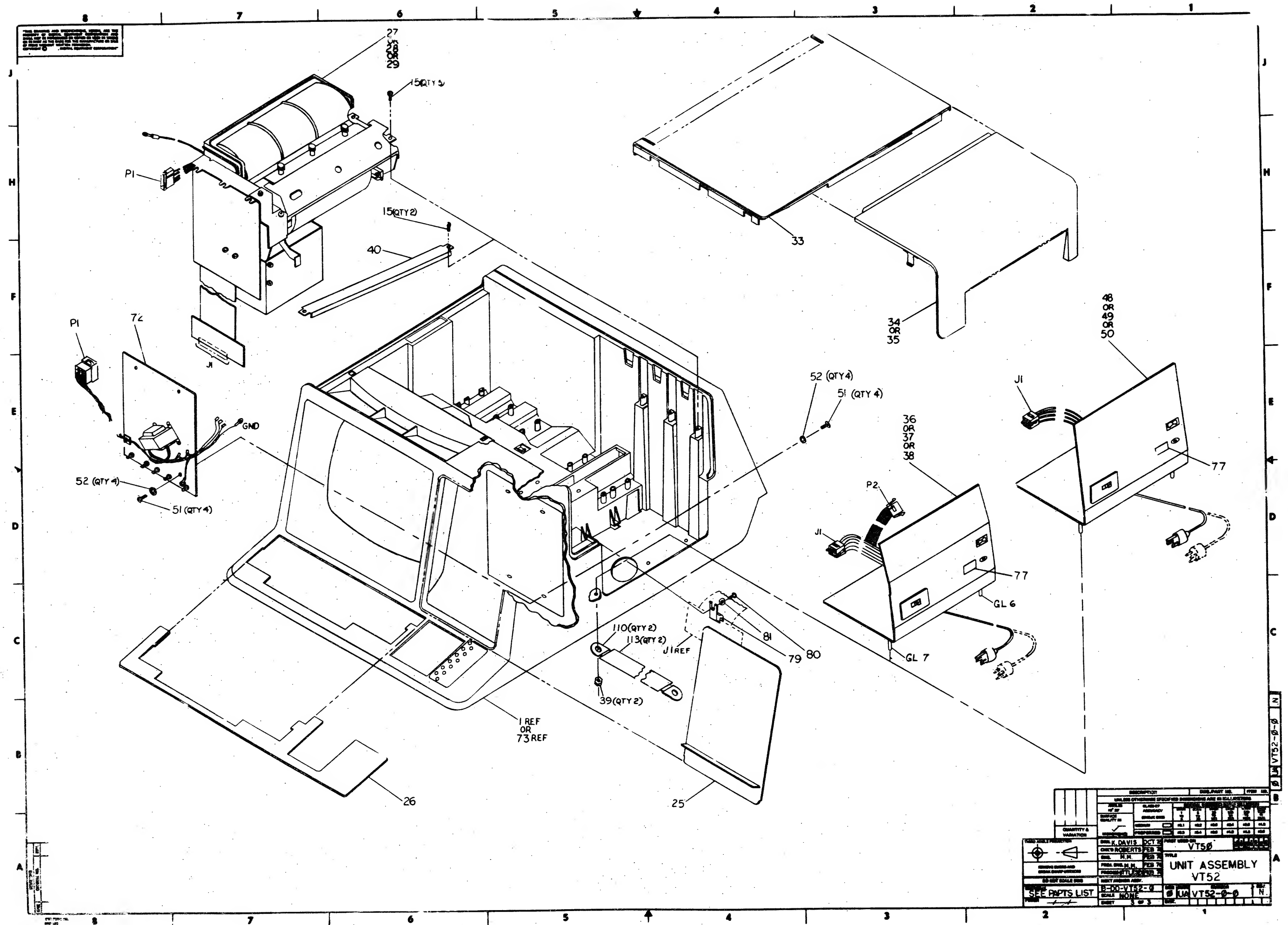
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UNIT ASSEMBLY  
VT52

SCALE: 1:1

SHEET 1 OF 3





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ITEM NO.	PART NO.	DESCRIPTION	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52	VT52
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REVISIONS	
CHK	CHANGE NO.
1	VT52-00002 A
1. BEATTY	
2	VT52-PN003 B
2. Bill. at 28 Dec 76	
3	G. CHRISTIANSEN
3. Bill. at 19 Jan 77	
4	M. WHITELEY
4. Bill. at 10 Feb 77	
5	VT52-PN009 D
5. Bill. at 10 Apr 77	
Y. SARGE	
6	VT52-PN010 E
6. Bill. at 13 May 77	
J. DESUK	
7	VT52-PN011 F
7. Bill. at 15 Jun 77	
G. CHRISTIANSEN	
8	VT52-PN017 K
8. Bill. at 15 Dec 77	
J. DESUK	
9	VT52-PN020 L
9. Bill. at 16 Jan 78	
J. DESUK	
10	VT52-PN015 J
10. Bill. at 16 Feb 78	
J. DESUK	
11	VT52-PN021 M
11. Bill. at 16 Mar 78	
J. DESUK	
12	VT52-ML036 N
12. Bill. at 16 Apr 78	
J. EVERETT	











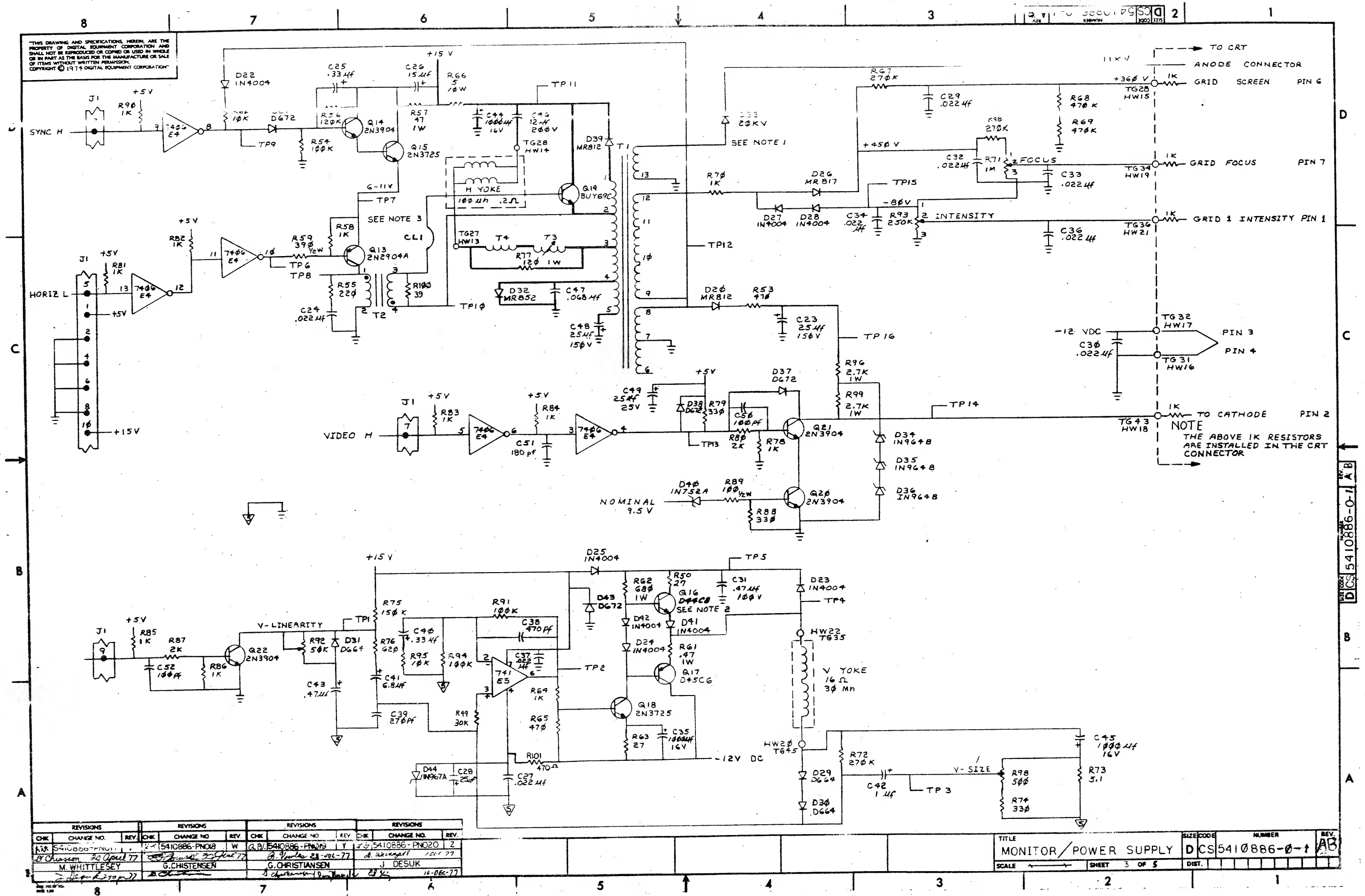
NOTES (CON'T.):

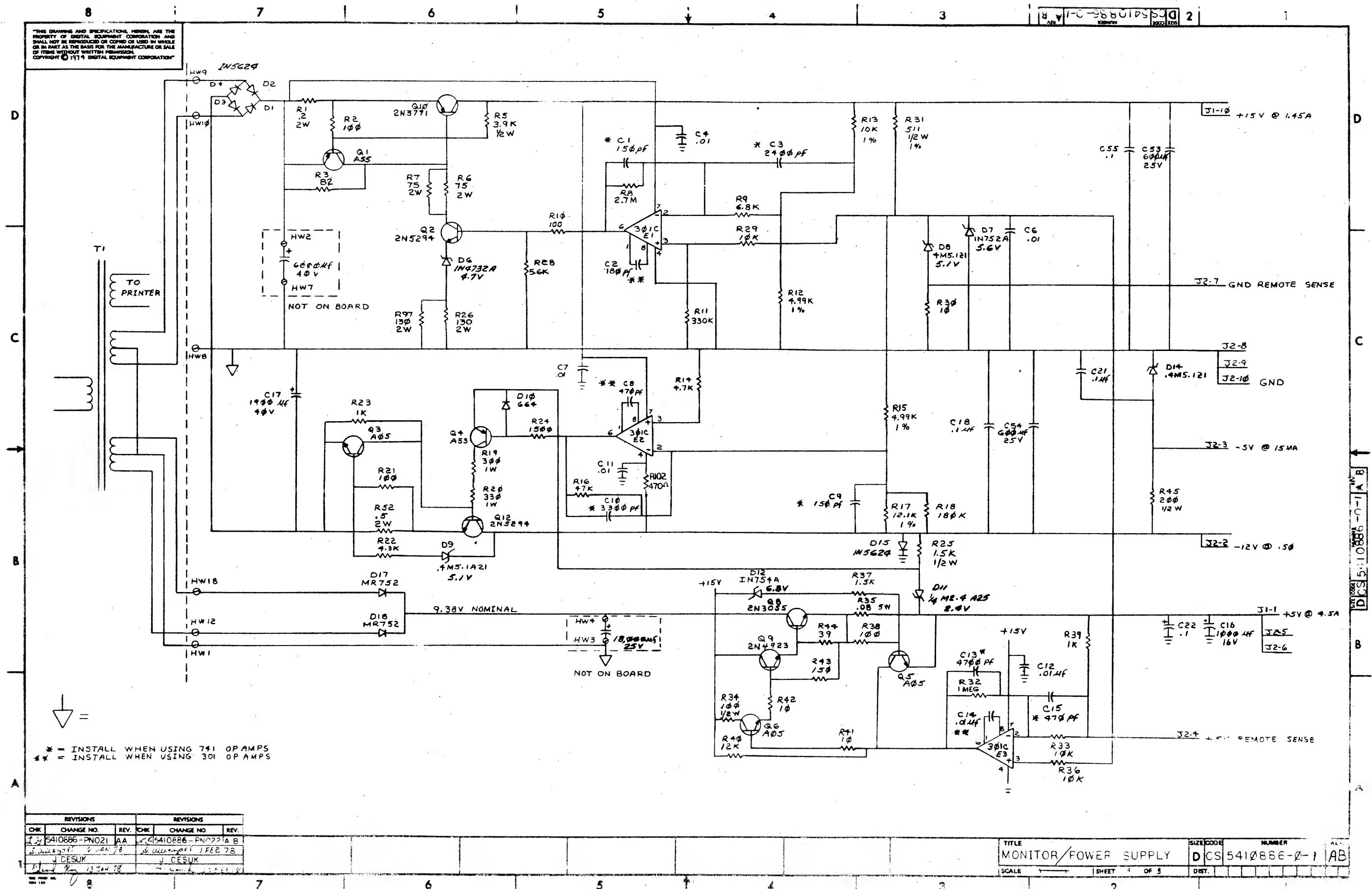
9. DIODE D33 QTY.1 IS REQUIRED WITH 5410886-01 VARIATION, ONLY.
10. SPACE RESISTOR OFF FROM BOARD USING ITEM #150 QTY2.
11. STRAP C46 FIRMLY TO BOARD USING TIE WRAP ITEM NO.151

1	T1	TRAN AT 2072 (FLY BACK XFMRL)	10-11006	117	1	R76	RES. 820 1/4W 5%	1303178	55
1	T2	TRAN DRIVER XFMR U937 (7.5:1)	10-11007	118	13	R523, 90, 50, 81, 84, 84, 70, 82, 70, 83, 85, 86	RES. 1K 1/4W 5%	1300385	56
1	T4	TRAN AT 4072 (LINEARITY COIL)	10-11009	119	1	R90, 87	RES. 2K 1/4W 5%	1302300	57
1	T3	TRAN U9934 (SIZE COIL)	10-11009	120	5	R20, 33, 30, 80, 95	RES. 10K 1/4W 5%	1300479	58
1	E4	IC DEC 7406	1010741	122	3	R94, 91, 54	RES. 100K 1/4W 5%	1302468	59
1	E5	IC DEC 741 OP-AMP	1910230	123	1	R56	RES. 120K 1/4W 5%	1300539	60
3	E1, E2, E3	IC DEC LM301C	1910202	124	1	R75	RES. 150K 1/4W 5%	1302306	61
A/R	J1, J2	HEADER PIN	12-2519	125	2	R60, R69	RES. 470K 1/4W 5%	1302300	62
1		HEAT SPREADER	7412849	126	1	R82	RES. 800 1W 5%	1300340	63
4	HW 2,3,4,7	TERMINAL, SOLDERLESS, CRIMP	90C9746	127	3	R72, 87, R48	RES. 270K 1/4W 10%	1301310	64
56	W1-W3, W6-W14, W46-W56, W58, W59, W60	JUMPERS .6 #22 WIRE	90C9746	128	4	R53, 85, R101, R102	RES. 470 1/4W 5%	1300310	65
			9107780-1		1	R77	RES. 120 1W 5%	1301830	66
1		SCR, PHL HD PAN #6-32 x .37 LG	9006022-1	129	2	R34, 89	RES. 100 1/2W 5%	1300220	67
4		TERMINAL RING TONGUE (RED)	1214628-01	130	2	R90, 80	RES. 2.7K 1W 10%	1303023	68
A/R		WIRE #18 AWG STRD (BLK)	9107360-00	131	1	R1	RES. .2 3W 3% W/W	1311604	69
A/R		WIRE #18 AWG STRD (RED)	9107360-22	132	1	R35	RES. .00 5W 3% W/W	1311083	70
1		NUT, KEPS #6-32	90008185	133	4	R2, 21, 30, 10	RES. 100 1/4W 5%	1300229	71
1		HARNESS CRT	2-1A-70120% 0-0	134	2	R97, R26	RES. 130, 2W 5%	1304032	72
1		HARNESS YOKE	1-1A-701187-00	135	1	R32	RES. 1 MEG 1/4W 5%	1309585	73
1		HARNESS POWER SUPPLY	1-1A-701186-00	136	1	R0	RES. 0.0K 1/4W 5%	1301423	74
6		SCR, PPH #2-56 x 1/2" LG	9006005-1	137	1	R11	RES. 330K 1/4W 5%	1302001	75
6		NUT, #2-56	9006555	138	1	R13	RES. 10K 1/8W 1%	1303312	76
2		INSULATOR, SILICONE RUBBER	1213071-02	139	2	R12, 15	RES. 4.00K 1/8W 1%	1305324	77
2		INSULATOR, THERMAL RUBBER	1213071-06	140	1	R31	RES. .01 3/4W 1%	1300324	78
3		INSULATOR, SILICONE RUBBER	1213071-02	141	1	R52	RES. 0.5 3W 3%	1311811	79
4		WASHER, #2 INT TOOTH	9006631	142	1	R10	RES. 47K 1/4W 5%	1302177	80
A/R (6MM)		TUBING, TEFLON, 1/2 AWG	9107301-10	143	1	R14	RES. 4.7K 1/4W 5%	1300447	81
12		WASHER, FLAT, SS	9008877	144	1	R17	RES. 12.1K 1/8W 1%	1303313	82
8		SCR, PPH #2-56 x 1/2" LG	9006005-1	145	1	R45	RES. 200 1/2W 5%	1302301	83
3	T05 TRANSISTORS	TRANSIPADS	9008206	146	1	R0	RES. 3.0K 1/2W 5%	1300443	84
5		CABLE TIE	9007031	147	1	R22	RES. 4.3K 1/4W 5%	1302300	85
2		SCREW, 4-40 x 3/8" LG	9006011-01	148	2	R37, 24	RES. 1.5K 1/4W 5%	1300301	86
2		NUT, KEP 4-40	9006557	149	1	R40	RES. 12K 1/4W 5%	1300488	87
2	USE WITH R66	SPACER, CERAMIC	9009798	150	2	R6, 7	RES. 75 2W 5%	1303039	88
1		TIE WRAP	9007880	151	1	R1	RES. 2.7M 1/4W 5%	1307680	89
A/R		WIRE 30 AWG GREEN	9105740-55	152	3	R30, 12, 41	RES. 10 1/4W 5%	1301317	90
					1	R3	RES. 82 1/4W 5%	1301477	91
					1	R43	RES. 150 1/4W 5%	1300250	92
					2	R44, R100	RES. 30 1/4W 5%	1302377	93

REVISIONS			REVISIONS			REVISIONS			REVISIONS			REVISIONS		
CHK	CHANGE NO.	REV	CHK	CHANGE NO.	REV	CHK	CHANGE NO.	REV	CHK	CHANGE NO.	REV	CHK	CHANGE NO.	REV
ET	5403236-00012	P		5401886-00013	R	ET	5401886-00014	S		5401886-00015	T		5401886-00016	U
1. Change 21 June 76			2. Change 21 June 76			3. Change 25 June 76			4. Change 28 June 76			5. Change 28 June 76		
M. WHITTLESEY			M. WHITTLESEY			M. WHITTLESEY			M. WHITTLESEY			M. WHITTLESEY		

TITLE	SIZE CODE	NUMBER	REV.
MONITOR POWER SUPPLY	D	CS5410886-0-1	
SCALE	SHEET	OF	S



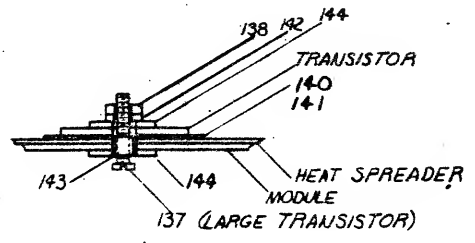
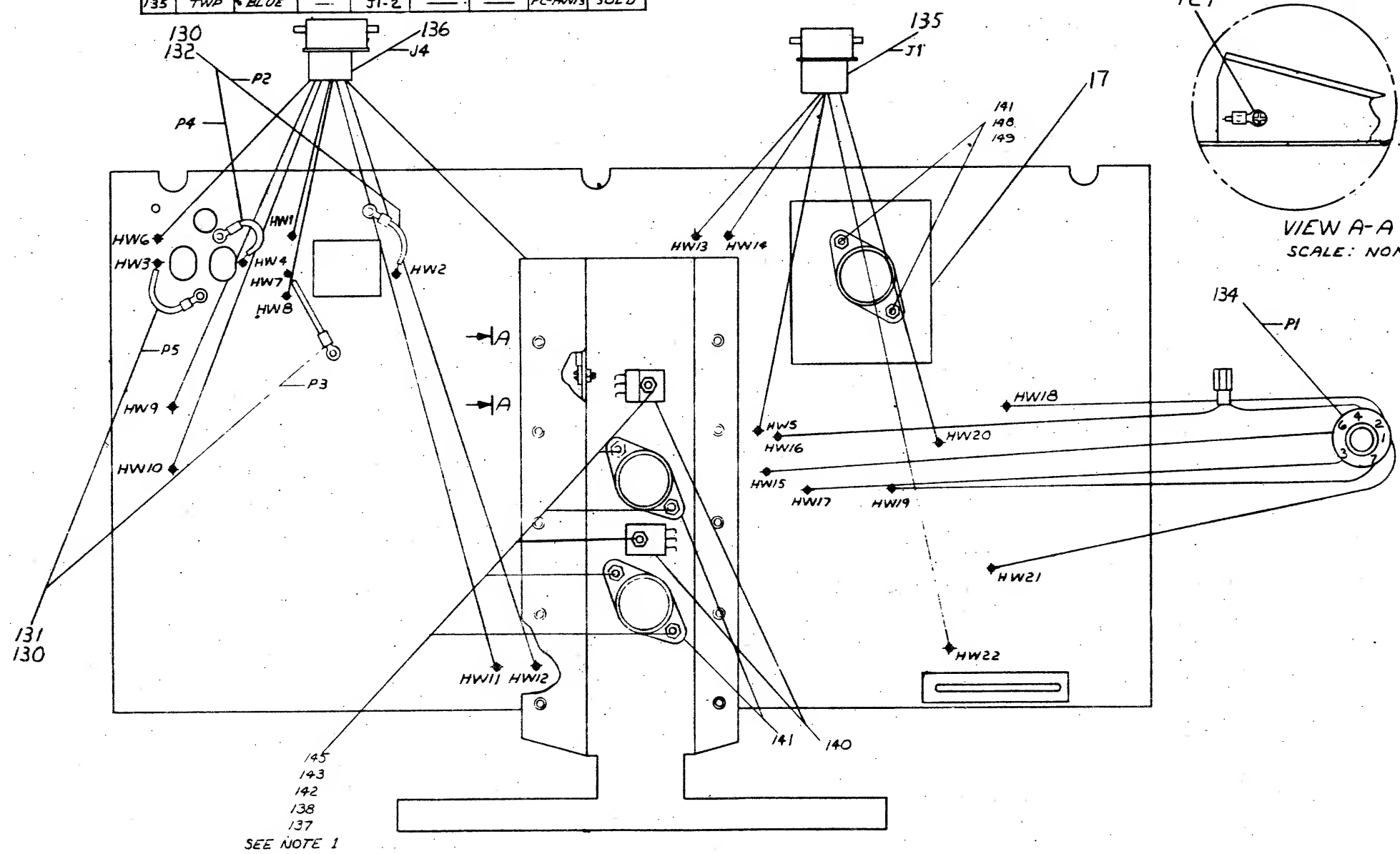


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WIRE TABLE									
ITEM NO.	DESCRIPTION			FROM			TO		
	AWG	COLOR	POINT	CONN	WITH	POINT	CONN	WITH	
136	10	GRN		J4-1			PC-HW6	SOLD	
		GRN		J4-2			GND	3/16" W-4	
		VIO		J4-4			PC-HW12	SOLD	
		VIO		J4-5			PC-HW11		
		BLUE		J4-7			PC-HW10		
		BLUE		J4-8			PC-HW9		
		BLU/BLK		J4-9			PC-HW1		
136		VIO/BLK		J4-6			PC-HW8		
135	18	GRN		J1-1			PC-HW5		
	22	BLK		J1-3			PC-HW20		
	TWP	RED		J1-6			PC-HW22		
	22	WHT		J1-5			PC-HW14		
135	TWP	BLUE		J1-2			PC-HW13	SOLD	

WIRE TABLE									
ITEM NO.	DESCRIPTION			FROM			TO		
	AWG	COLOR	POINT	CONN	WITH	POINT	CONN	WITH	WIRE LENGTH
132	22	GRN	PI-1				PC-HW1	SOLD	
		YEL	PI-2				PC-HW18		
		BRN	PI-3				PC-HW17		
		BLK	PI-4				PC-HW16		
		RED	PI-6				PC-HW15		
134	22	BLUE	PI-7				PC-HW19		
131	18	BLK					PC-HW3		76.2 MM
131	18	BLK					PC-HW7		76.2 MM
132	18	RED					PC-HW4		76.2 MM
132	18	RED					PC-HW2	SOLD	76.2 MM

NOTES 1. SHOWN BELOW IN VIEW B-B IS A VIEW OF THE SCREW ASSY FOR ALL SIX (6) MOUNTING SCREWS.



SEE NOTE 1

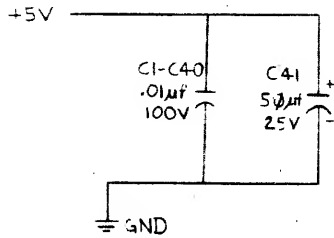
REVISIONS		
CHK	CHANGE NO.	REV.



LEGEND	
NUMBER	VARIATION
5411745-0	BASIC VT52
5411745-1	HEAT CYCLED, SYSTEM TESTED
5411745-2	BASIC VT51
5411745-3	HEAT CYCLED, SYSTEM TESTED

NOTES:

- COMPONENTS NOT TO BE INSERTED: R8, R9.
- FOR VT51 (VARIATION -2/-3) E23 THRU E45 WILL BE DELETED JUMPER WIRES W6 THRU W10 WILL BE DELETED AND JUMPER WIRES W1 THRU W5 WILL BE INSERTED.



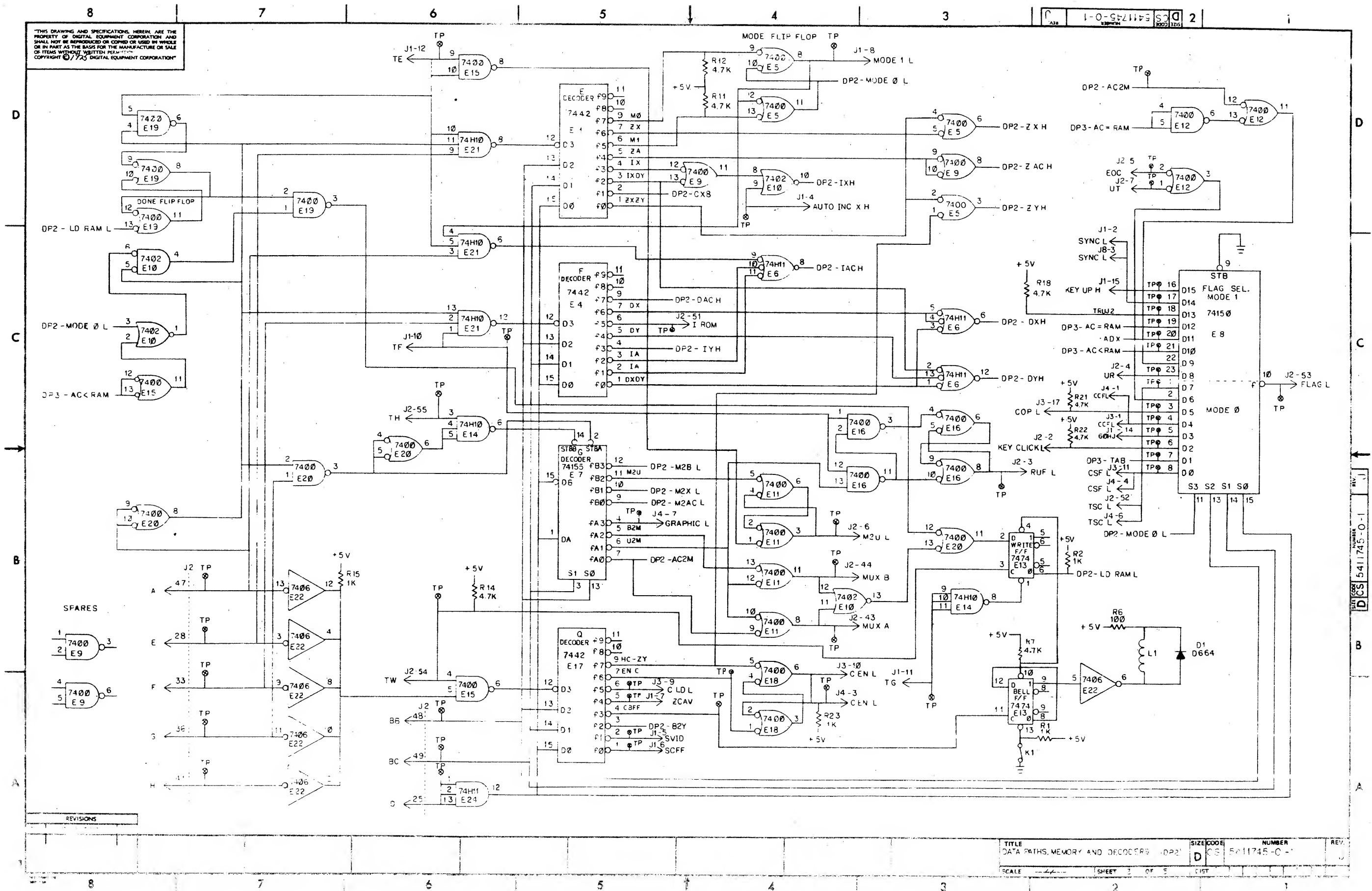
7442	8	16
74155	8	16
74150	12	24
74193	8	16
7485	8	16
74157	8	16
2102	9	10
IC TYPE	GND	+5V
PINS 7 AND 14 ARE USUALLY PIN 7 AND 14 RESPECTIVELY. EXCEPTIONS ARE STATED ABOVE.		
IC PIN LOCATIONS		

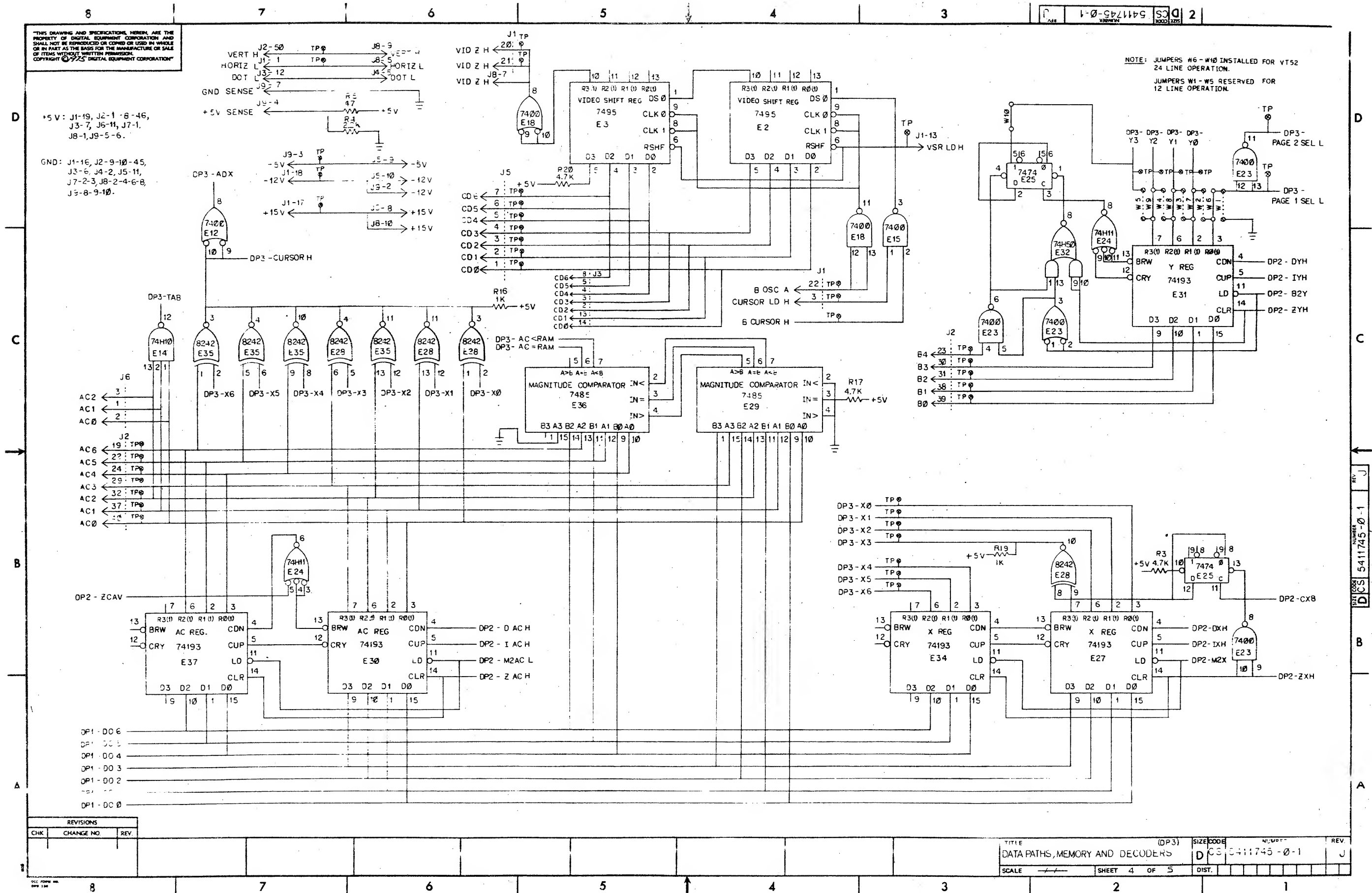
SEE B-PL-5411745-0-0

QTY	REF. DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
VT51/VT52				
ETCH BOARD REV. E				
<div> <div> DRN. T. MISITANO CHK'D. R. PUCCI ENG. T. MISITANO PROJ. ENG. M. MORGANSTERN PROD. R. PUCCI </div> <div> DATE 7-14-75 DATE 7-20-75 DATE 8-24-75 DATE 9-24-75 DATE 9-24-75 </div> </div>				
TITLE: DATA PATH, MEMORY AND DECODERS				
<div> <div> DEC NO. EIA NO. DEC NO. EIA NO. </div> <div> SCALE: SHEET 1 OF 5 </div> </div>				
<div> <div> DICI 5411745-0-1 </div> <div> REV. J </div> </div>				

SEMICONDUCTOR CONVERSION CHART









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WIRE TABLE				
ITEM NO.	DESCRIPTION	FROM	TO	
40	22	BLK	J9-1	
		BRN	2	
		RED	3	
		ORN	4	
		YEL	5	
		GRN	6	
		BLU	7	
		VIO	8	
		GRY	9	
40		WHT	J9-10	
40		BLK	J8-1	
		BRN	2	
		RED	3	
		ORN	4	
		YEL	5	
		GRN	6	
		BLU	7	
		VIO	8	
		GRY	9	
40	22	WHT	J8-10	

J1 RUT CONN.  
1 HORIZ L  
2 SYNC L  
3 CURSOR LDH  
4 AUTO INC X H  
5 SVID  
6 SCFF  
7 ZCAV  
8 MODE IL  
9 T2H  
10 TF  
11 TG  
12 TE  
13 VSR LDH  
14 60HJ  
15 KEY UP H  
16 GND  
17 +15V  
18 -12V  
19 +5V  
20 VIO ZH  
21 VIO ZH  
22 B OSC A

J2 RUT CONN.  
1 +5V  
2 KEY CLK L  
3 RUF L  
4 UR  
5 UT  
6 M2UL  
7 EOC  
8 +5V  
9 GND  
10 GND  
11 DO6  
12 DO5  
13 DO4  
14 DO0  
15 DO1  
16 DO2  
17 DO3  
18 M2BL  
19 AC6  
20 DI6  
21 DI5  
22 AC5  
23 B4  
24 AC4  
25 D  
26 DI4  
27 DI3  
28 E

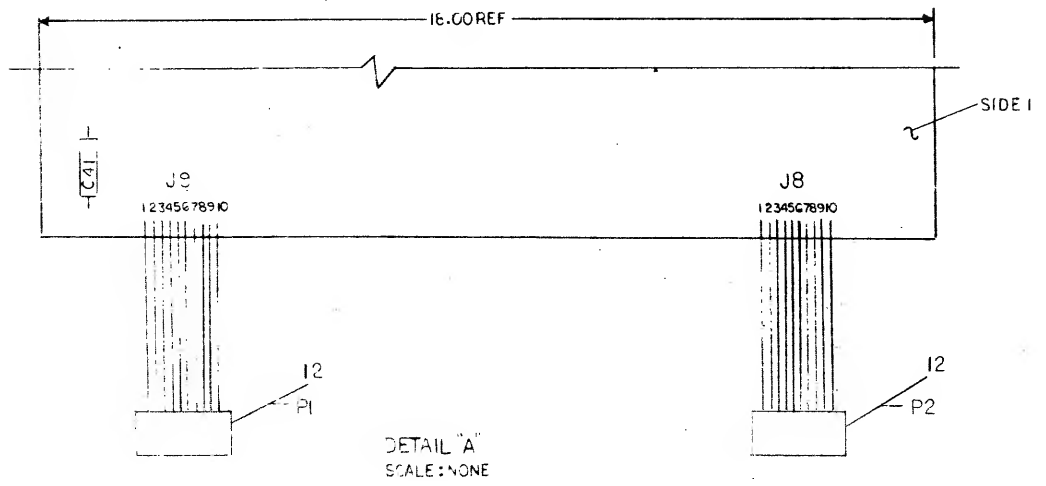
J3 COPIER -CONN.  
1 CCFL  
2 CD2  
3 CD3  
4 CD4  
5 CD5  
6 GND  
7 +5V  
8 CD6  
9 C LD L  
10 CEN L  
11 CSFL  
12 DOT L  
13 CD1  
14 CD0  
15  
16  
17 COPL  
18  
19  
20

J4 GRAPHICS - CONN.  
1 CCFL  
2 GND  
3 CEN L  
4 CSFL  
5 DOT L  
6 TSC L  
7 GRAPHIC L  
  
J5 CHAR.GEN.CONN.  
1 CD0  
2 CD1  
3 CD2  
4 CD3  
5 CD4  
6 CD5  
7 CD6  
8 +15V  
9 -5V  
10 -12V  
11 GND

J6 CHAR.GEN.CONN.  
1 AC1  
2 AC0  
3 AC2  
4 DO6  
5 DO4  
6 DO5  
7 DO3  
8 DO1  
9 DO2  
10 DO0  
11 +5V  
  
J7 GRAPHICS - CONN.  
1 +5V  
2 GND  
3 GND  
4 DO6  
5 DO5  
6 DO4  
7 DO0  
8 DO1  
9 DO2  
10 DO3

J8 MONITOR - CONN.  
1 +5V  
2 -12V  
3 SYNC L  
4 GND  
5 HORIZ L  
6 GND  
7 VIO ZH  
8 GND  
9 VERT H  
10 +15V

J9 POWER CONN.  
1  
2 -12V  
3 -5V  
4 +5V SENSE  
5 +5V  
6 +5V  
7 GND SENSE  
8 GND  
9 GND  
10 GND

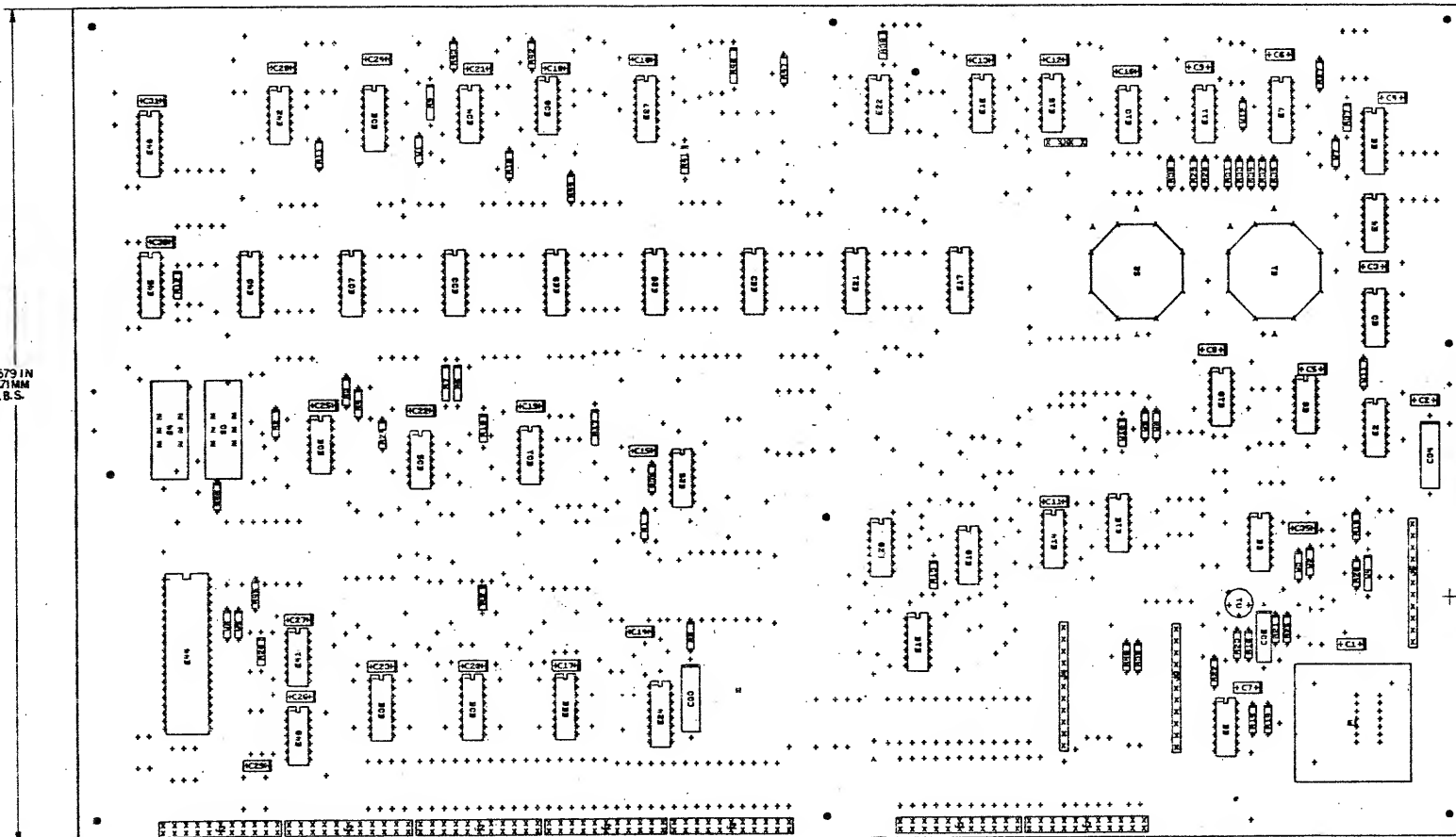


REVISIONS		
CHK	CHANGE NO	REV

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**NOTES:**

1. COMPONENTS NOT TO BE INSERTED:  
R28-R35, R39, R40 R42-R44  
2. OPTIONAL JUMPERS: W1-W12



J1	
DATA	PATH CONN
1	HORIZ L
2	SYNC L
3	CURSOR LD H
4	AUTO INC X H
5	SWID
6	SCFF
7	ZCAV
8	MODE I L
9	T2H
10	TF
11	TG
12	TE
13	VSR LD H
14	G0HJ
15	KEY UP H
16	GND
17	+15V
18	-12V
19	+5V
20	VID 2 H
21	VID 2 H
22	B OSC A

DATA - RAIN CONN	
1 +5V	29 AC3
2 KEY CLICK L	30 B3
3 RUF L	31 B2
4 UR	32 AC2
5 UT	33 F
6 MTU L	34 DI2
7 EOC	35 DI1
8 +5V	36 G
9 GND	37 AC1
10 GND	38 B1
11 DO6	39 B0
12 DO5	40 AC0
13 DO4	41 H
14 DO0	42 DI0
15 DO1	43 MUX A
16 DO2	44 MUX B
17 DO3	45 GND
18 M2B L	46 +5V
19 AC6	47 A
20 DI6	48 B8
21 DI5	49 BC
22 AC5	50 VERT H
23 B4	51 I ROM
24 AC4	52 TSC L
25 D	53 FLAG L
26 DI4	54 TW
27 DI3	55 TH

J3	
DOT X-OR CONN	
1	—
2	—
3	—
4	—
5	—
6	VID Z H
7	VID Z H
8	GND
9	DIS JSC L
10	R INTH
11	EXT H

J5  
KEYBOARD CONN

1	CTRL KEY L
2	BRK KEY L
3	AC 0
4	AC 1
5	AC 2
6	AC 3
7	AC 4
8	AC 5
9	GND
10	KEY UP H
11	+5V

J4	
20MA/EIA CONN.	
1	+5V
2	-12V
3	+15V
4	GND
5	REC. DATA H
6	—
7	TRANS DATA L
8	—
9	—
10	—
11	—

J6  
GRAPHICS CONN.  
1 GND  
2 H FLY H  
3 EN CYCLE L  
4 INIT L

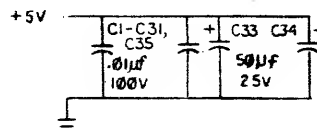
### LEGEND


VARIATION	DESCRIPTION
5411743-00	VT52 COPIER ROMS
5411743-01	HEAT AND SYSTEM TESTED 5411743-00
5411743-02	VT55 BASIC
5411743-03	HEAT AND SYSTEM TESTED 5411743-02
5411743-04	VT52 BASIC, PRINTER ROMS
5411743-05	HEAT AND SYSTEM TESTED 5411743-04
5411743-06	VT 51 BASIC
5411743-07	HEAT AND SYSTEM TESTED 5411743-06

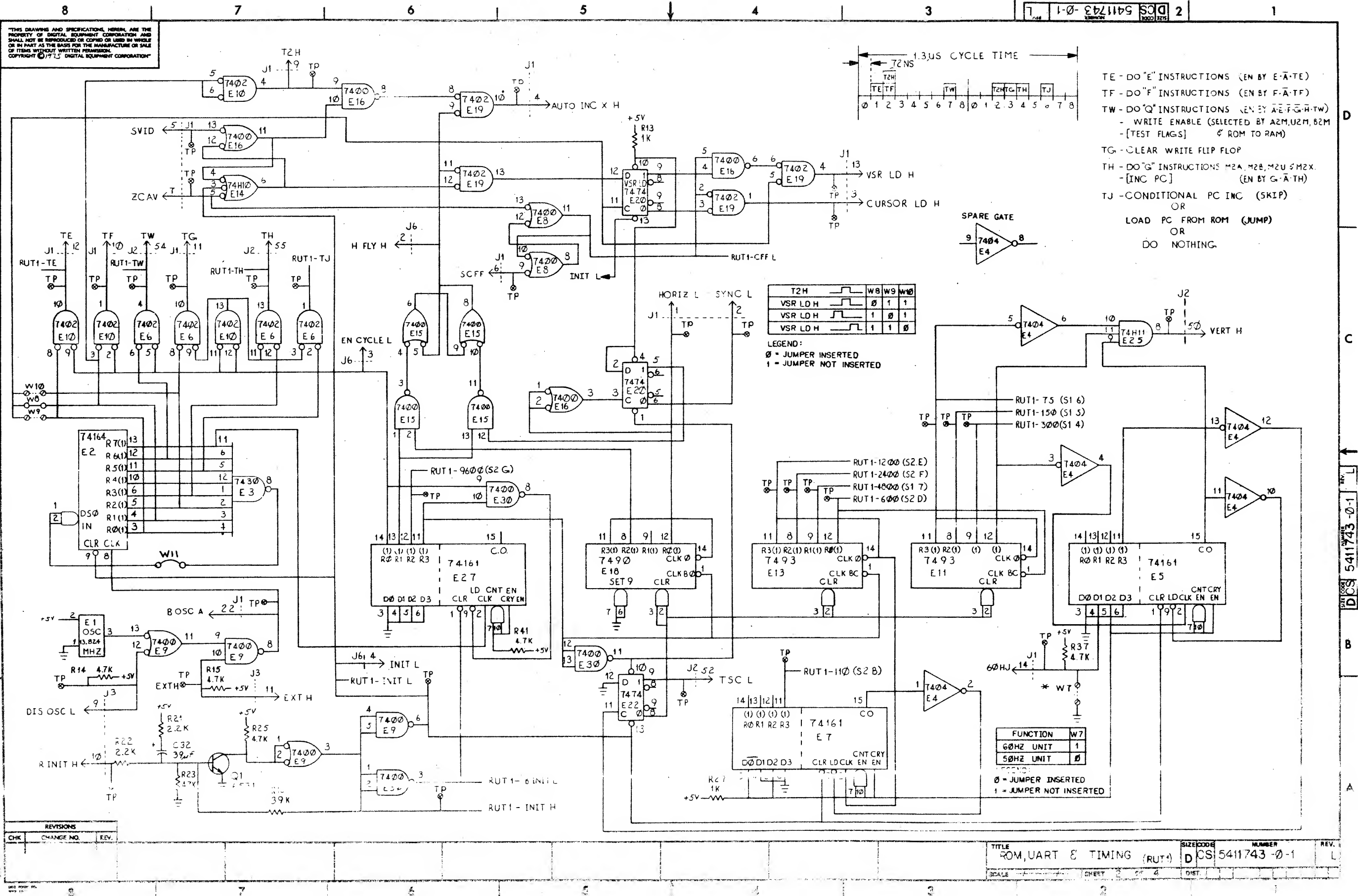
JUMPER WIRE, TABLE

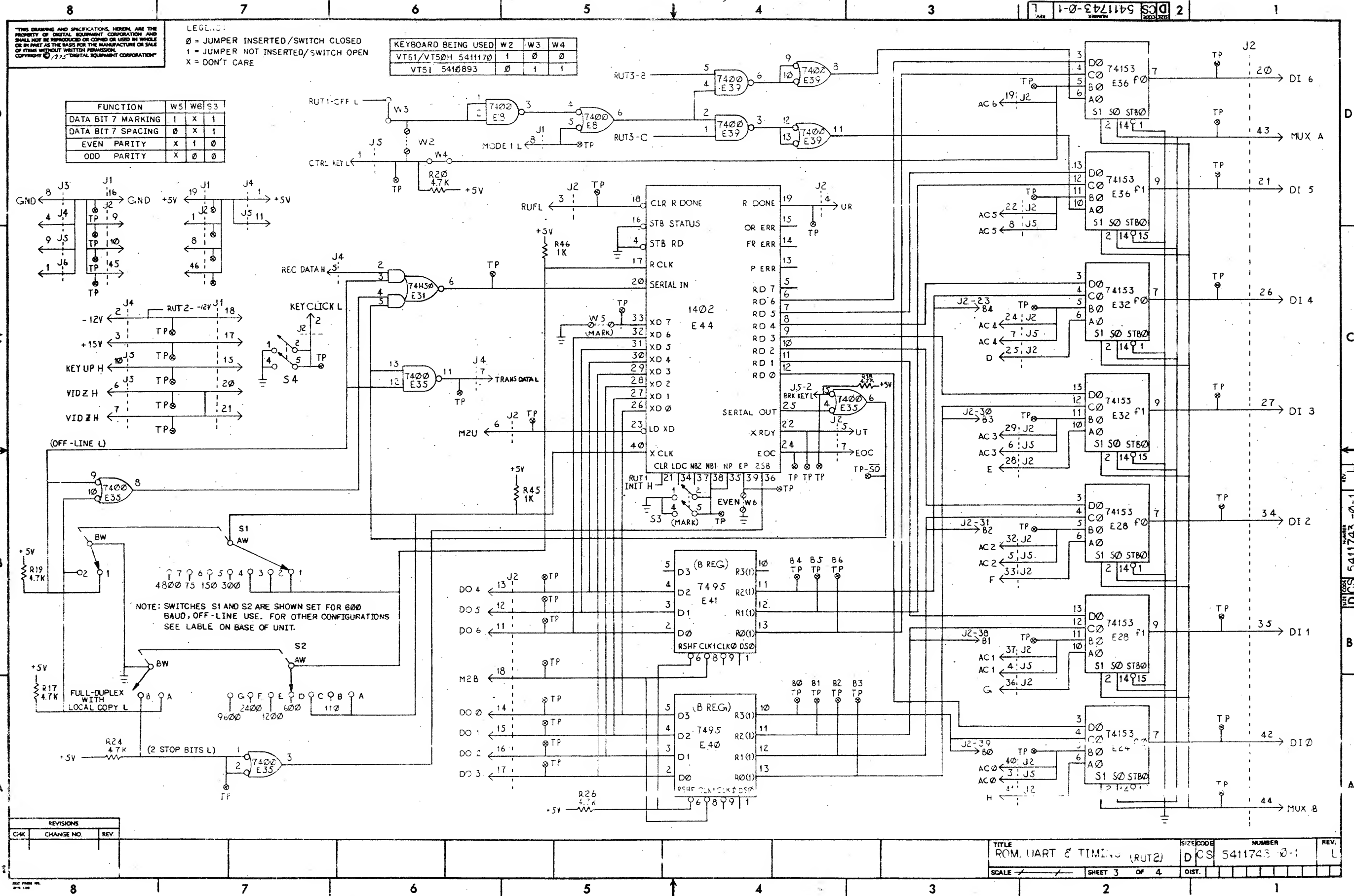
	VT 52	VT 51	VT 55
W1	OUT	IN	OUT
W2	OUT	IN	OUT
W3	IN	OUT	IN
W4	IN	OUT	IN

SEE OFF SHEET PARTS LIST

[illegible][illegible]

QTY		REF. DESIGNATION		DESCRIPTION		PART NO.		ITEM NO.	
FIRST USED ON OPTION MODEL				PARTS LIST					
VT52				ETCH BOARD REV.		D			
				DRK. TUM M I S T A N G		DATE 4-16-75			
				CHK'D		DATE 9-22-75			
				ENG. TUM M I S T A N G		DATE 9-22-75			
				PROJ. ENG. M. MORLANSTEIN		DATE 9-22-75			
				PROD. B. DICKI		DATE			
				NEXT HIGHER ASSY		TITLE		ROM, UART AND TIMING	
				++					
DEC NO.		EIA NO.		DEC NO.		EIA NO.			
SEMICONDUCTOR CONVERSION CHART				SCALE		SIZE CODE		NUMBER	
				SHEET 1 OF 4		D I C S		5411743-0-1	
						DIST.			





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LEGEND:  
Ø = JUMPER INSERTED/SWITCH CLOSED  
1 = JUMPER NOT INSERTED/SWITCH OPEN  
X = DON'T CARE

KEYBOARD BEING USED	W2	W3	W4
VT61/VT50H 5411170	1	Ø	Ø
VT51 5410893	Ø	1	1

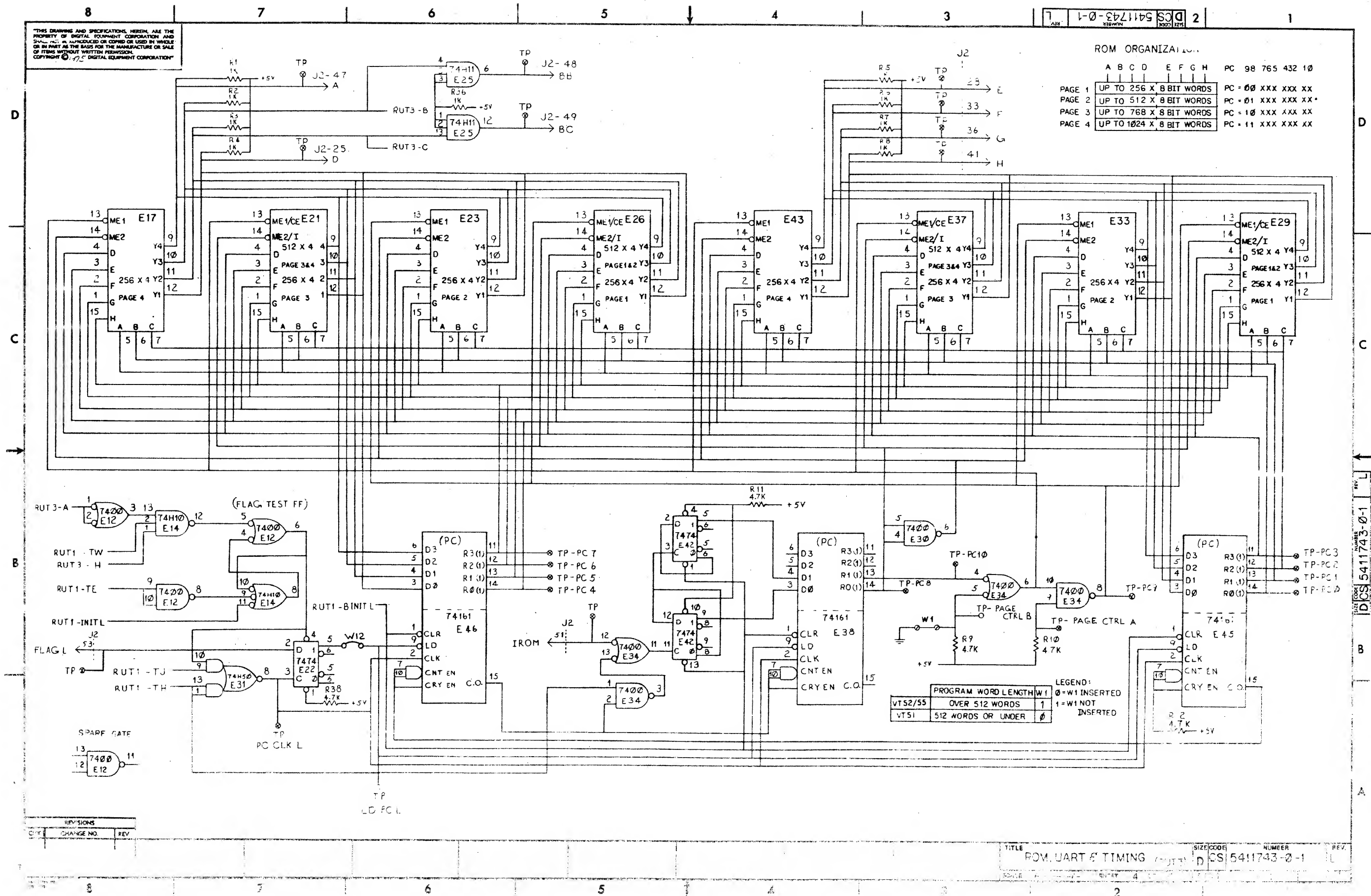
FUNCTION	W5	W6	S3
DATA BIT 7 MARKING	1	X	1
DATA BIT 7 SPACING	Ø	X	1
EVEN PARITY	X	1	Ø
ODD PARITY	X	Ø	Ø

NOTE: SWITCHES S1 AND S2 ARE SHOWN SET FOR 600 BAUD, OFF-LINE USE. FOR OTHER CONFIGURATIONS SEE LABEL ON BASE OF UNIT.

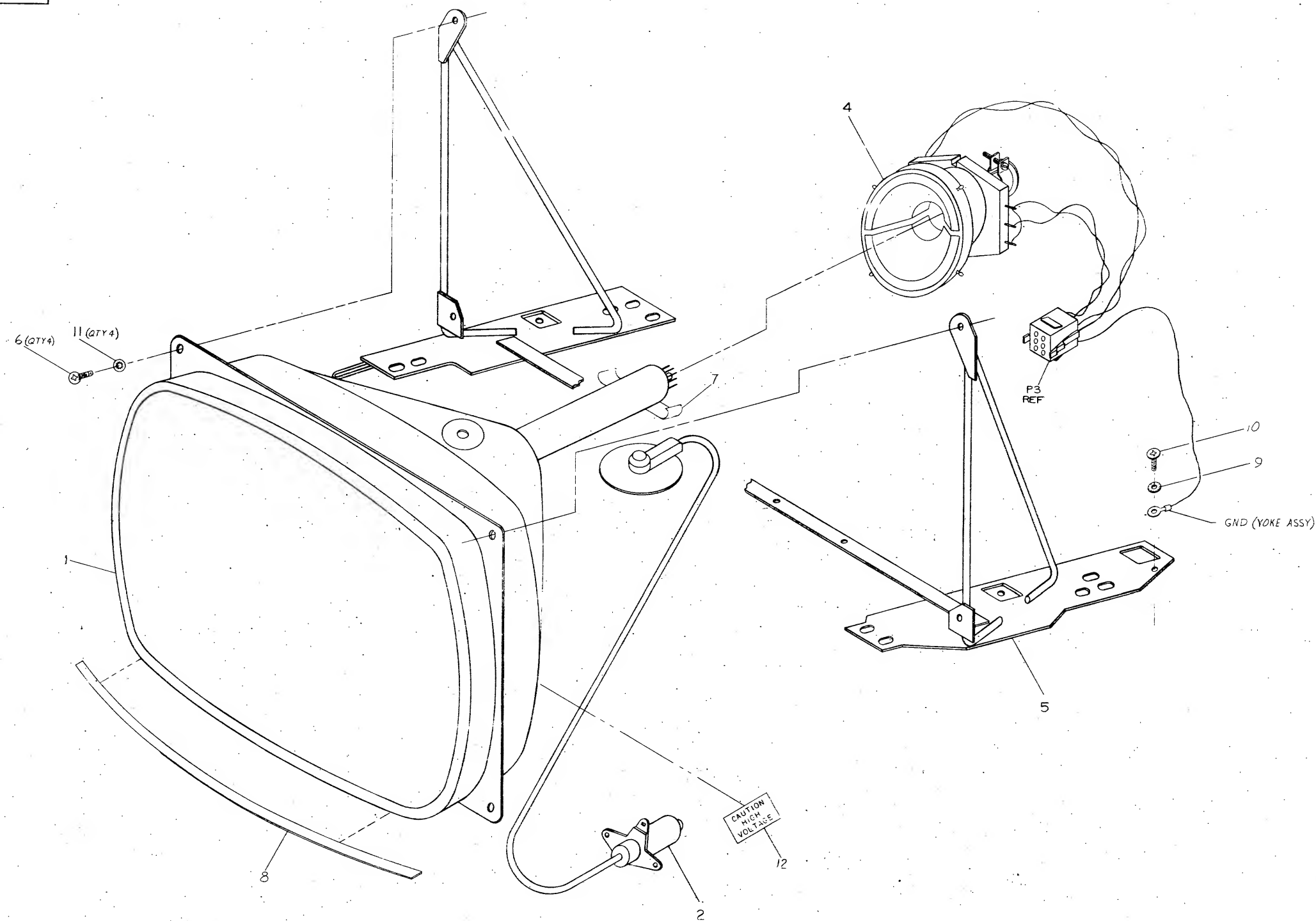
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE CODE	NUMBER	REV.
ROM, UART & TIMING (RUT2)	D	5411743-0-1	L
SCALE	SHEET 3 OF 4	DIST.	





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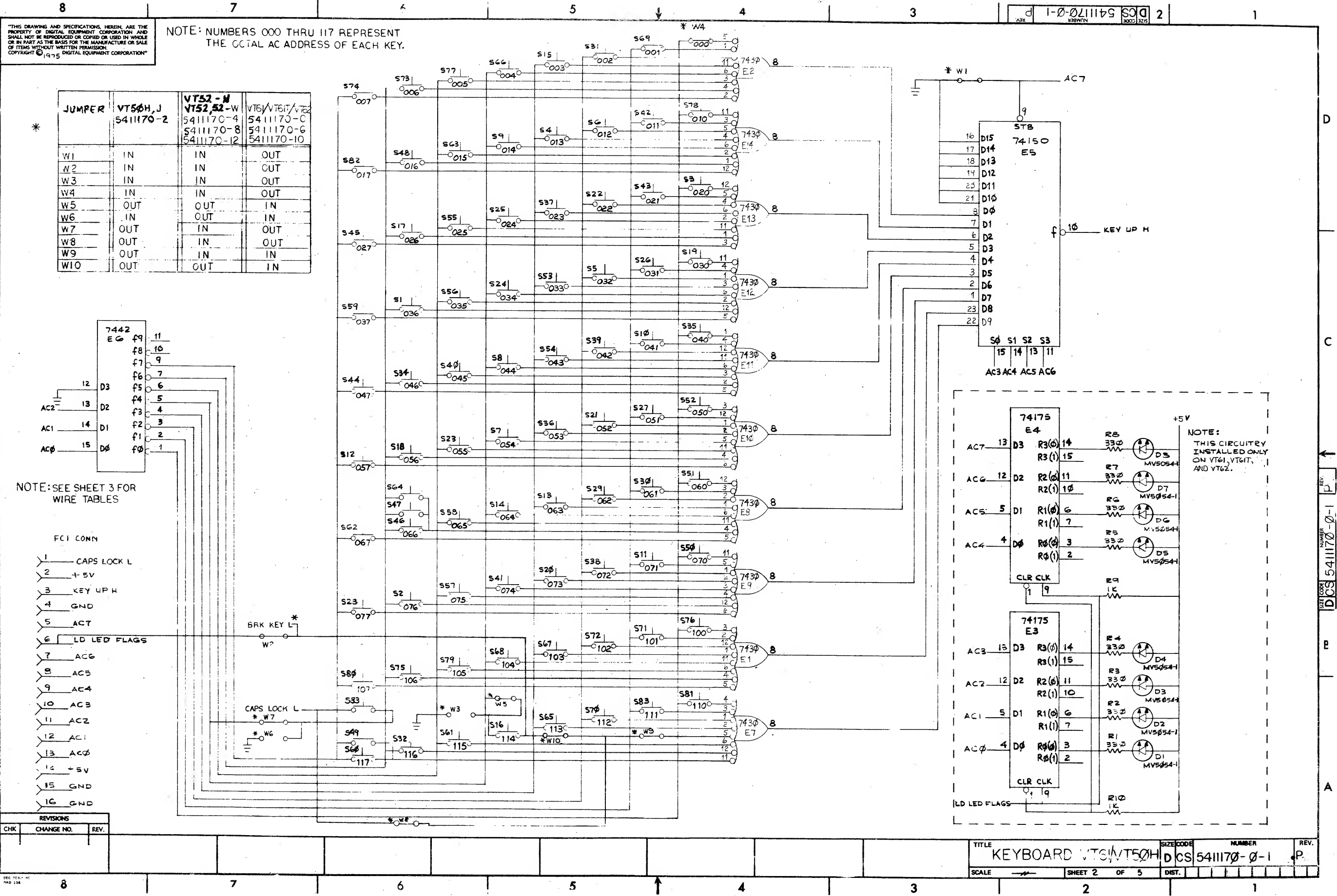
1	DECAL, HIGH VOLTAGE	3610267	12
4	LOCKWASHER, INT. TH.	9006636	11
1	SCREW, MACH., #6-32	9006022-1	10
1	LOCKWASHER, EXT. TH.	9007649	9
1/4	TAPE, GREEN	9007834	8
1/4	TAPE, GRAY, DULT	9009339	7
4	SCREW, TRUSS HD, MACH	9006037-3	6
1	WIREFORM, CRT	1-1A-7415319-0-0	5
1	ASSEMBLY, YOKE	2-1A-7010906-0-0	4
4	SCREW, PAN. HD, #6-32	9006036-1	3
1	DIODE, HIGH VOLTAGE	1112553	2
1	TUBE, CATHODE RAY	1211701	1

THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS	
QUANTITY & VARIATION	CLASS OF ACCURACY (CHECK ONE)	DIMENSIONAL TOLERANCES IN MILLIMETERS	
		OVER 1	OVER 1
		TO 1	TO 1
		2	3
		10.1	10.2
		10.3	10.4
		10.5	10.6
		10.7	10.8
		10.9	11.0
		11.1	11.2
		11.3	11.4
		11.5	11.6
		11.7	11.8
		11.9	12.0
		12.1	12.2
		12.3	12.4
		12.5	12.6
		12.7	12.8
		12.9	13.0
		13.1	13.2
		13.3	13.4
		13.5	13.6
		13.7	13.8
		13.9	14.0
		14.1	14.2
		14.3	14.4
		14.5	14.6
		14.7	14.8
		14.9	15.0
		15.1	15.2
		15.3	15.4
		15.5	15.6
		15.7	15.8
		15.9	16.0
		16.1	16.2
		16.3	16.4
		16.5	16.6
		16.7	16.8
		16.9	17.0
		17.1	17.2
		17.3	17.4
		17.5	17.6
		17.7	17.8
		17.9	18.0
		18.1	18.2
		18.3	18.4
		18.5	18.6
		18.7	18.8
		18.9	19.0
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		19.3	19.4
		19.5	19.6
		19.7	19.8
		19.9	20.0
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		20.3	20.4
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		20.7	20.8
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		21.3	21.4
		21.5	21.6
		21.7	21.8
		21.9	22.0
		22.1	22.2
		22.3	22.4
		22.5	22.6
		22.7	22.8
		22.9	23.0
		23.1	23.2
		23.3	23.4
		23.5	23.6
		23.7	23.8
		23.9	24.0
		24.1	24.2
		24.3	24.4
		24.5	24.6
		24.7	24.8
		24.9	25.0
		25.1	25.2
		25.3	25.4
		25.5	25.6
		25.7	25.8
		25.9	26.0
		26.1	26.2
		26.3	26.4
		26.5	26.6
		26.7	26.8
		26.9	27.0
		27.1	27.2
		27.3	27.4
		27.5	27.6
		27.7	27.8
		27.9	28.0
		28.1	28.2
		28.3	28.4
		28.5	28.6
		28.7	28.8
		28.9	29.0
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		30.3	30.4
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		51.5	51.6
		51.7	51.8
		51.9	52.0
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		52.3	52.4
		52.5	52.6
		52.7	52.8
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		53.7	53.8
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		54.9	55.0
		55.1	55.2
		55.3	55.4
		55.5	55.6
		55.7	55.8
		55.9	56.0
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		56.5	56.6
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		56.9	57.0
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		60.7	60.8
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		61.7	61.8
		61.9	62.0
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		62.7	62.8
		62.9	63.0
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		64.9	65.0
		65.1	65.2
		65.3	65.4
		65.5	65.6
		65.7	65.8
		65.9	66.0
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		66.3	66.4
		66.5	66.6
		66.7	66.8
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		67.3	67.4
		67.5	67.6
		67.7	67.8
		67.9	68.0
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		68.7	68.8
		68.9	69.0
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		69.5	69.6
		69.7	69.8
		69.9	70.0
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		70.3	70.4
		70.5	70.6
		70.7	70.8
		70.9	71.0
		71.1	71.2
		71.3	71.4
		71.5	71.6
		71.7	71.8
		71.9	72.0
		72.1	72.2
		72.3	72.4
		72.5	72.6
		72.7	72.8
		72.9	73.0
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		74.5	74.6
		74.7	74.8
		74.9	75.0
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		75.3	75.4
		75.5	75.6
		75.7	75.8
		75.9	76.0
		76.1	76.2
		76.3	76.4
		76.5	76.6
		76.7	76.8
		76.9	77.0
		77.1	77.2
		77.3	77.4
		77.5	77.6
		77.7	77.8
		77.9	78.0
		78.1	78.2
		78.3	78.4
		78.5	78.6
		78.7	78.8
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		79.1	79.2
		79.3	79.4
		79.5	79.6
		79.7	79.8
		79.9	80.0
		80.1	80.2
		80.3	80.4
		80.5	80.6
		80.7	80.8
		80.9	81.0
		81.1	81.2
		81.3	81.4
		81.5	81.6
		81.7	81.8
		81.9	82.0
		82.1	82.2
		82.3	82.4
		82.5	82.6
		82.7	82.8
		82.9	83.0
		83.1	83.2
		83.3	83.4
		83.5	83.6
		83.7	83.8
		83.9	84.0
		84.1	84.2
		84.3	84.4
		84.5	84.6
		84.7	84.8
		84.9	85.0
		85.1	85.2
		85.3	85.4
		85.5	85.6
		85.7	85.8
		85.9	86.0
		86.1	8

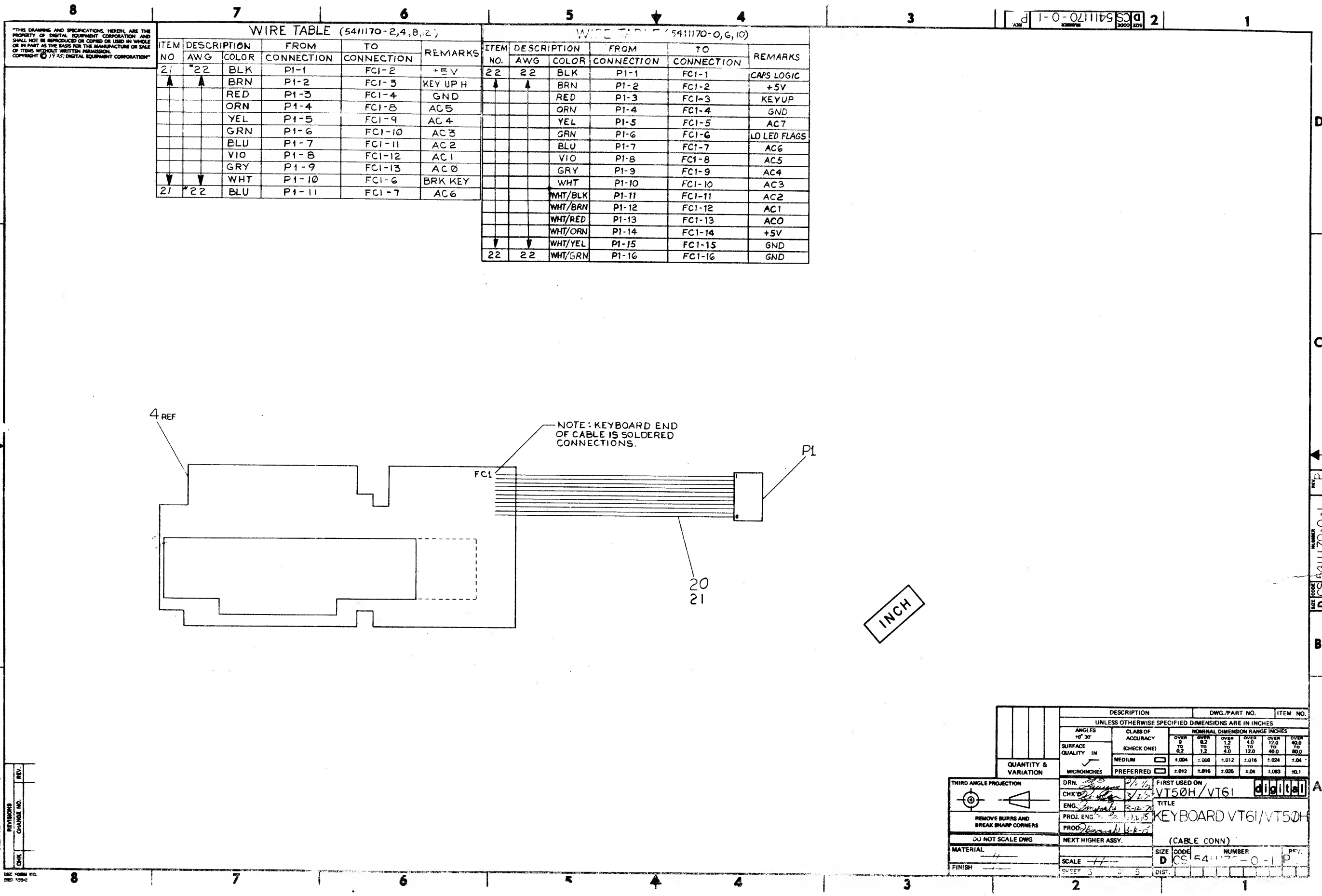
DEC IC 7442	8	16
DEC IC 74175	8	16
DEC IC 74150	12	24
IC TYPE	QND	+ 5V

QND AND 5V ARE USUALLY PIN 7 AND 14  
RESPECTIVELY EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATION



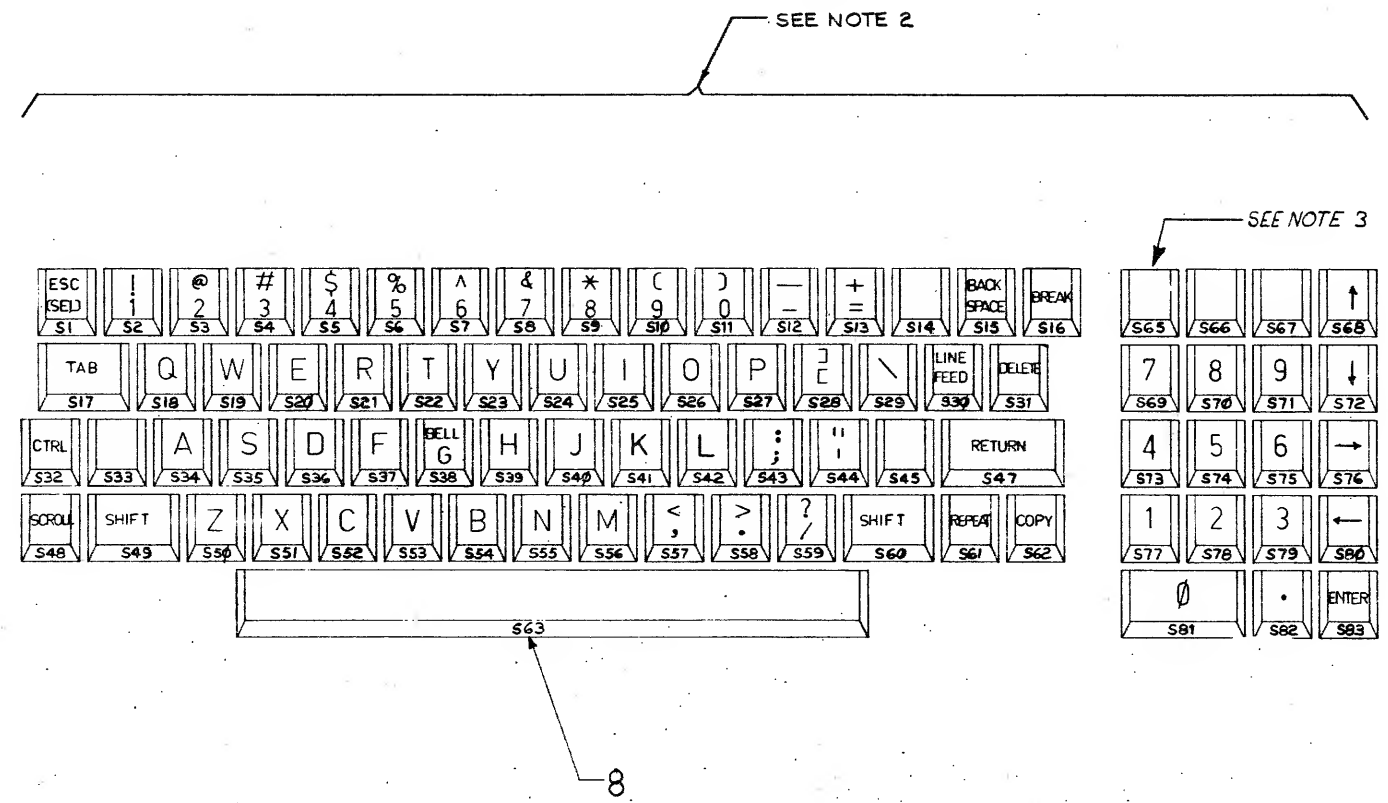




DESCRIPTION		DWG./PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			
ANGLES 10° 30°	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE INCHES	
SURFACE QUALITY IN	MEDIUM	OVER TO 0.2	OVER TO 0.2
QUANTITY & VARIATION	PREFERRED	OVER TO 0.2	OVER TO 0.2
THIRD ANGLE PROJECTION	DRN. <i>[Signature]</i>	OVER TO 0.2	OVER TO 0.2
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>[Signature]</i>	OVER TO 0.2	OVER TO 0.2
DO NOT SCALE DWG	ENG. <i>[Signature]</i>	OVER TO 0.2	OVER TO 0.2
MATERIAL	PROD. <i>[Signature]</i>	OVER TO 0.2	OVER TO 0.2
FINISH	NEXT HIGHER ASSY.	OVER TO 0.2	OVER TO 0.2
SCALE		FIRST USED ON	
SHEET 3		VT50H/VT61	
		TITLE	
		KEYBOARD VT61/VT50H	
		(CABLE CONN)	
		SIZE CODE NUMBER	
		D CS 5411170-0-1 P	

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- NOTES:
1. THE KEYCAP PLACEMENT ON THIS SHEET REPRESENTS THE VT50H, VT50J PLACEMENT. TO FIND KEYCAP LOCATIONS FOR OTHER VARIATIONS MATCH THE SWITCH NUMBERS (EXAMPLE S9) ON EACH KEYCAP ON THIS SHEET WITH THE CORRESPONDING SWITCH NUMBER FOR THE DESIRED VARIATION ON SHEET 5.
  2. SEE PARTS LIST FOR ITEM NUMBERS FOR DESIRED VARIATIONS.
  3. A CUSTOMER INSTALLED OPTION CALLED "SUPER KEY" (VTXX-BL) MAY REPLACE THE KEYCAP NORMALLY FOUND IN THIS POSITION ON THE VT70.



REV.	CHANGE NO.	DATE
1	1	3-1-75

DRN. 541170-0-1	3-1-75	FIRST USED ON	VT50 H/ VT61
CHK'D	3-1-75	TITLE	KEYBOARD VT61/VT50H
ENG.	3-1-75	(KEYCAP VARIATIONS)	
PROD. ENG.	3-1-75		
NEXT HIGHER ASSY.			
SCALE NONE		SIZE CODE	D CS
SHEET 4 OF 5		NUMBER	54 1170-0-1
		REV.	P

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COLOR GUIDE  
NO NUMBER : GRAY  
1 : RED  
2 : WHITE  
3 : GOLD  
4 : GRAY, LIGHT

NOTE: 1) LEGENDS IN LOWER PORTION OF BOX ARE ON THE FRONT FACE OF THE KEY.  
2) LEGEND ON SIDE IS ON SIDE OF KEY.

KEYCAP PLACEMENT

SWITCH NUMBER


variation	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39	S40	S41	S42
5411170-0 (VT61)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L
5411170-2 (VT50H)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL		A	S	D	F	BELL G	H	J	K	L
5411170-4 (VT52)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL	CAPS LOCK	A	J	D	F	BELL G	H	J	K	L
5411170-6 (VT61)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L
5411170-8 (VT52-W)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L
5411170-10 (VT62)	SELECT	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L
5411170-12 (VT52-N)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L
5411170-14 (VT52-W)	ESC (SEL)	1	2	3	4	5	6	7	8	9	0	-	+	~	BACK SPACE	BREAK	TAB	Q	W	E	R	T	Y	U	I	O	P	[	]	LINE FEED	DELETE	CTRL	CAPS LOCK	A	S	D	F	BELL G	H	J	K	L

SWITCH NUMBER (CONT.)

variation	S43	S44	S45	S46	S47	S48	S49	S50	S51	S52	S53	S54	S55	S56	S57	S58	S59	S60	S61	S62	S63	S64	S65	S66	S67	S68	S69	S70	S71	S72	S73	S74	S75	S76	S77	S78	S79	S80	S81	S82	S83		
5411170-0	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER
5411170-2	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER
5411170-4	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER
5411170-6	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER
5411170-8 (VT52-W)	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER
5411170-10 (VT62)	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER
5411170-12 (VT52-N)	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER
5411170-14 (VT52-W)	:	:	1	1	2	1	2	2	Z	X	C	V	B	N	M	<	>	?	2	SHIFT	2	REPEAT	1	COPY	2	SPACE BAR	2	2	1	7	8	9	4	5	6	→	1	2	3	←	0	•	ENTER

REVISIONS		
CHK	CHANGE NO.	REV.

2004-05

DRAWN <i>X 8.3</i>		11-14-75		FIRST USED ON		VT52			
CHKD <i>[Signature]</i>		11/16/75		TITLE MTG PLATE ASSEMBLY					
ENG <i>[Signature]</i>		11/16/75							
PROD <i>[Signature]</i>		11/16/75							
PROD <i>[Signature]</i>		11/16/75							
NEXT HIGHER Assy				SIZE CODE		NUMBER		REV.	
0-UA-VT52-0-0				1 AD		7012166-0-0			
SCALE NONE				SHEET		1 OF 2		DIST.	

115V, 60 HZ

WIRE TABLE							
ITEM NO	DESCRIPTION		FROM		TO		LENGTH
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
18	18	BLK	CBI-1	21#22	CI-1	21#22	241.3 MM
18	↑	BLK	CBI-2	21#22	SI-1	SOL#13	330.2 MM
20		BLK	_____	_____	SI-2	SOL#13	_____
		WHT	_____	_____	SI-6	SOL#13	_____
		GRN	_____	_____	GND LUG	9	_____
6		GRN	_____	_____	_____	_____	_____
		WHT	_____	_____	CI-3	SELF#22	_____
	↓	BLK	_____	_____	CI-4	SELF#22	_____
19	18	WHT	SI-5	SOL#13	CI-2	21#22	203.2 MM

220/240 V, 50/60 HZ  
100/127V, 50/60 HZ

WIRE TABLE							
ITEM NO	DESCRIPTION		FROM		TO		LENGTH
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	
18	18	BLK	CBI-1	21#25	CI-1	21#25	241.3 MM
23	↑	BLK	POINT 2	_____	CBI-2	SELF#22	_____
		BLK	POINT 1	_____	SI-2	SOLD#13	_____
		BLK	POINT 3	_____	SI-3	SOLD#13	_____
24		WHT	POINT 3	_____	CI-2	SELF#22	_____
		WHT	POINT 1	_____	SI-5	SOLD#13	_____
		WHT	POINT 2	_____	SI-6	_____	_____
		WHT	POINT 4	_____	SI-7	_____	_____
		WHT	POINT 5	_____	SI-8	_____	_____
20		BLK	_____	_____	SI-1	_____	_____
		WHT	_____	_____	SI-4	SOLD#13	_____
		GRN	_____	_____	_____	_____	_____
7		GRN/YEL	_____	_____	GROUND LUG	9	_____
	↓	BLU	_____	_____	CI-3	SELF#22	_____
	18	BRN	_____	_____	CI-4	SELF#22	_____

REVISIONS		
CHK	CHANGE NO.	REV

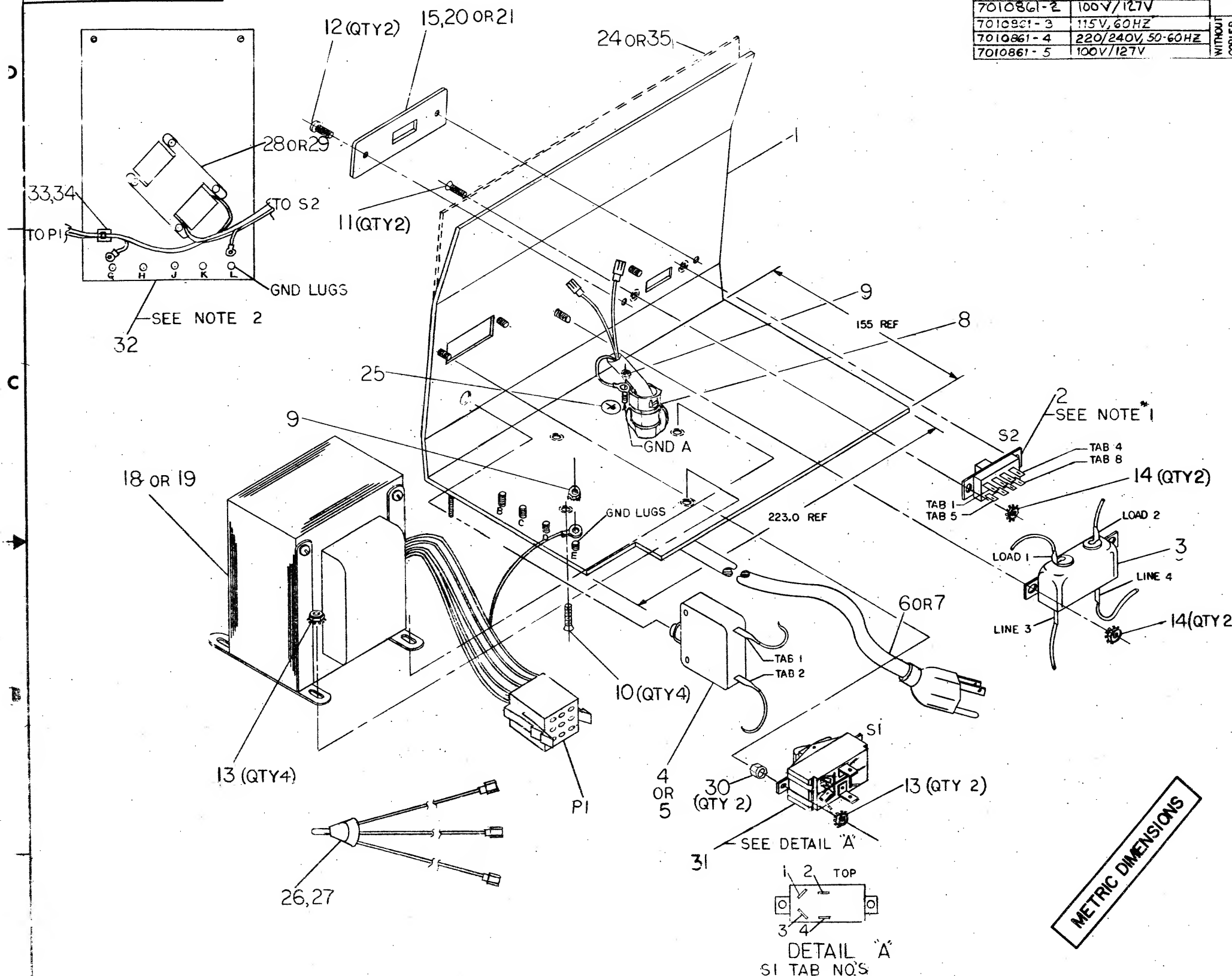


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LEGEND		WI H	COP IER
NUMBER	VARIATION		
7010861-0	115V, 60 HZ	W I H	C O P I E R
7010861-1	220/240V, 50-60 HZ		
7010861-2	100V/127V		
7010861-3	115V, 60 HZ		
7010861-4	220/240V, 50-60 HZ		
7010861-5	100V/127V	W I T H O U T	C O P I E R

# NOTES:

1. THIS ITEM NOT REQUIRED FOR VARIATIONS 0 AND 3
2. THIS ITEM NOT REQUIRED FOR VARIATIONS 3, 4 AND 5



QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	MOUNT, TIE (ADHESIVE BACKED)	1	MOUNT, TIE (ADHESIVE BACKED)	1	MOUNT, TIE (ADHESIVE BACKED)
1	TIE, CABLE	1	TIE, CABLE	1	TIE, CABLE
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	SWITCH, ROCKER	1	SWITCH, ROCKER	1	SWITCH, ROCKER
2	SPACER, HEX .375 L.G.	2	SPACER, HEX .375 L.G.	2	SPACER, HEX .375 L.G.
1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER
1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER
1	JUMPER ASSY (WHT)	1	JUMPER ASSY (WHT)	1	JUMPER ASSY (WHT)
1	JUMPER ASSY (BLK)	1	JUMPER ASSY (BLK)	1	JUMPER ASSY (BLK)
1	DECAL, GROUND	1	DECAL, GROUND	1	DECAL, GROUND
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	SWITCH, VT50-51	1	SWITCH, VT50-51	1	SWITCH, VT50-51
1	PLATE, VT50-51	1	PLATE, VT50-51	1	PLATE, VT50-51
1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)
1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)
1	TUBING, SHRINKABLE WHT	1	TUBING, SHRINKABLE WHT	1	TUBING, SHRINKABLE WHT
1	NUT, 8-32, HEX	1	NUT, 8-32, HEX	1	NUT, 8-32, HEX
1	PLATE, VT50-51	1	PLATE, VT50-51	1	PLATE, VT50-51
4	NUT, 4-40, KEP	4	NUT, 4-40, KEP	4	NUT, 4-40, KEP
6	NUT, 8-32, KEP	6	NUT, 8-32, KEP	6	NUT, 8-32, KEP
2	SCREW, 8-32X.250 BUTTND HD	2	SCREW, 8-32X.250 BUTTND HD	2	SCREW, 8-32X.250 BUTTND HD
2	SCREW, 4-40X.312 FLATHEAD	2	SCREW, 4-40X.312 FLATHEAD	2	SCREW, 4-40X.312 FLATHEAD
4	SCREW, 8-32X.437 FLATHEAD	4	SCREW, 8-32X.437 FLATHEAD	4	SCREW, 8-32X.437 FLATHEAD
2	NUT, 10-32, KEP	2	NUT, 10-32, KEP	2	NUT, 10-32, KEP
1	RELIEF, CABLE STRAIN	1	RELIEF, CABLE STRAIN	1	RELIEF, CABLE STRAIN
1	CORD POWER, 220/240	1	CORD POWER, 220/240	1	CORD POWER, 220/240
1	CORD POWER, 115V	1	CORD POWER, 115V	1	CORD POWER, 115V
1	BREAKER CIRCUIT	1	BREAKER CIRCUIT	1	BREAKER CIRCUIT
1	BREAKER CIRCUIT	1	BREAKER CIRCUIT	1	BREAKER CIRCUIT
1	FILTER	1	FILTER	1	FILTER
1	SWITCH	1	SWITCH	1	SWITCH
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	MOUNT, TIE (ADHESIVE BACKED)	1	MOUNT, TIE (ADHESIVE BACKED)	1	MOUNT, TIE (ADHESIVE BACKED)
1	TIE, CABLE	1	TIE, CABLE	1	TIE, CABLE
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	SWITCH, ROCKER	1	SWITCH, ROCKER	1	SWITCH, ROCKER
2	SPACER, HEX .375 L.G.	2	SPACER, HEX .375 L.G.	2	SPACER, HEX .375 L.G.
1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER
1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER
1	JUMPER ASSY (WHT)	1	JUMPER ASSY (WHT)	1	JUMPER ASSY (WHT)
1	JUMPER ASSY (BLK)	1	JUMPER ASSY (BLK)	1	JUMPER ASSY (BLK)
1	DECAL, GROUND	1	DECAL, GROUND	1	DECAL, GROUND
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	SWITCH, VT50-51	1	SWITCH, VT50-51	1	SWITCH, VT50-51
1	PLATE, VT50-51	1	PLATE, VT50-51	1	PLATE, VT50-51
1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)
1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)
1	TUBING, SHRINKABLE WHT	1	TUBING, SHRINKABLE WHT	1	TUBING, SHRINKABLE WHT
1	NUT, 8-32, HEX	1	NUT, 8-32, HEX	1	NUT, 8-32, HEX
1	PLATE, VT50-51	1	PLATE, VT50-51	1	PLATE, VT50-51
4	NUT, 4-40, KEP	4	NUT, 4-40, KEP	4	NUT, 4-40, KEP
6	NUT, 8-32, KEP	6	NUT, 8-32, KEP	6	NUT, 8-32, KEP
2	SCREW, 8-32X.250 BUTTND HD	2	SCREW, 8-32X.250 BUTTND HD	2	SCREW, 8-32X.250 BUTTND HD
2	SCREW, 4-40X.312 FLATHEAD	2	SCREW, 4-40X.312 FLATHEAD	2	SCREW, 4-40X.312 FLATHEAD
4	SCREW, 8-32X.437 FLATHEAD	4	SCREW, 8-32X.437 FLATHEAD	4	SCREW, 8-32X.437 FLATHEAD
2	NUT, 10-32, KEP	2	NUT, 10-32, KEP	2	NUT, 10-32, KEP
1	RELIEF, CABLE STRAIN	1	RELIEF, CABLE STRAIN	1	RELIEF, CABLE STRAIN
1	CORD POWER, 220/240	1	CORD POWER, 220/240	1	CORD POWER, 220/240
1	CORD POWER, 115V	1	CORD POWER, 115V	1	CORD POWER, 115V
1	BREAKER CIRCUIT	1	BREAKER CIRCUIT	1	BREAKER CIRCUIT
1	BREAKER CIRCUIT	1	BREAKER CIRCUIT	1	BREAKER CIRCUIT
1	FILTER	1	FILTER	1	FILTER
1	SWITCH	1	SWITCH	1	SWITCH
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER

TRANSFORMER ASSY

1 7010861-0-0

QTY	DESCRIPTION	QTY	DESCRIPTION	QTY	DESCRIPTION
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	MOUNT, TIE (ADHESIVE BACKED)	1	MOUNT, TIE (ADHESIVE BACKED)	1	MOUNT, TIE (ADHESIVE BACKED)
1	TIE, CABLE	1	TIE, CABLE	1	TIE, CABLE
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	SWITCH, ROCKER	1	SWITCH, ROCKER	1	SWITCH, ROCKER
2	SPACER, HEX .375 L.G.	2	SPACER, HEX .375 L.G.	2	SPACER, HEX .375 L.G.
1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER
1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER	1	HARNESS, TRANSFORMER
1	JUMPER ASSY (WHT)	1	JUMPER ASSY (WHT)	1	JUMPER ASSY (WHT)
1	JUMPER ASSY (BLK)	1	JUMPER ASSY (BLK)	1	JUMPER ASSY (BLK)
1	DECAL, GROUND	1	DECAL, GROUND	1	DECAL, GROUND
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER
1	SWITCH, VT50-51	1	SWITCH, VT50-51	1	SWITCH, VT50-51
1	PLATE, VT50-51	1	PLATE, VT50-51	1	PLATE, VT50-51
1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)
1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)	1	HARNESS, TRANSFORMER (CONE)
1	TUBING, SHRINKABLE WHT	1	TUBING, SHRINKABLE WHT	1	TUBING, SHRINKABLE WHT
1	NUT, 8-32, HEX	1	NUT, 8-32, HEX	1	NUT, 8-32, HEX
1	PLATE, VT50-51	1	PLATE, VT50-51	1	PLATE, VT50-51
4	NUT, 4-40, KEP	4	NUT, 4-40, KEP	4	NUT, 4-40, KEP
6	NUT, 8-32, KEP	6	NUT, 8-32, KEP	6	NUT, 8-32, KEP
2	SCREW, 8-32X.250 BUTTND HD	2	SCREW, 8-32X.250 BUTTND HD	2	SCREW, 8-32X.250 BUTTND HD
2	SCREW, 4-40X.312 FLATHEAD	2	SCREW, 4-40X.312 FLATHEAD	2	SCREW, 4-40X.312 FLATHEAD
4	SCREW, 8-32X.437 FLATHEAD	4	SCREW, 8-32X.437 FLATHEAD	4	SCREW, 8-32X.437 FLATHEAD
2	NUT, 10-32, KEP	2	NUT, 10-32, KEP	2	NUT, 10-32, KEP
1	RELIEF, CABLE STRAIN	1	RELIEF, CABLE STRAIN	1	RELIEF, CABLE STRAIN
1	CORD POWER, 220/240	1	CORD POWER, 220/240	1	CORD POWER, 220/240
1	CORD POWER, 115V	1	CORD POWER, 115V	1	CORD POWER, 115V
1	BREAKER CIRCUIT	1	BREAKER CIRCUIT	1	BREAKER CIRCUIT
1	BREAKER CIRCUIT	1	BREAKER CIRCUIT	1	BREAKER CIRCUIT
1	FILTER	1	FILTER	1	FILTER
1	SWITCH	1	SWITCH	1	SWITCH
1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER	1	PLATE, MTG. TRANSFORMER

115 VOLTS  
60 HZ

7010861-0

WIRE TABLE

ITEM NO.	DESCRIPTION			FROM			TO			SIGNAL
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH		
28	18	WHT	15	—	—	—	SI-3	—		
28	18	BLK	16	—	—	—	SI-1	—		
28	18	BLK	22	FL LOAD 1	—	23	CB-1	—		
28	18	BLK	24	SI-2	—	21	CB-2	—		
28	18	WHT	25	SI-4	—	20	FL LOAD 2	—		
28	18	GRN	2	—	—	18	GND B	—		
6	18	WHT	—	—	—	17	FL LINE 4	—		
6	18	BLK	—	—	—	16	FL LINE 3	—		
6	18	GRN/YEL	—	—	—	—	GND A	—		
28	18	GRN/YEL	17	GND L	—	—	GND B	—		

100/127 VOLTS  
220/240 VOLTS  
50-60 HZ

7010861-1 & -2

WIRE TABLE

ITEM NO	DESCRIPTION			FROM			TO			SIGNAL
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH		
29	18	BLK	21	—	—	—	S2-4	—		
29	18	GRN	1	—	—	—	GND G	—		
26	18	BLK	2	—	—	—	S1-1	—		
26	18	BLK	1	—	—	—	S2-2	—		
26	18	BLK	3	—	—	—	S2-3	—		
27	18	WHT	3	—	—	—	S1-3	—		
27	18	WHT	1	—	—	—	S2-6	—		
27	18	WHT	2	—	—	—	S2-7	—		
29	18	BLK	22	CB-1	—	23	FL LOAD 1	—		
29	18	WHT	14	—	—	—	S2-8	—		
29	18	WHT	16	—	—	—	S2-2	—		
7	18	BLU	—	—	—	—	FL LINE 4	—		
7	18	BRN	—	—	—	—	FL LINE 3	—		
7	18	GRN/YEL	—	—	—	—	GND A	—		
29	18	BLK	24	CB-2	—	25	S1-2	—		
29	18	WHT	26	FL LOAD 2	—	27	S1-4	—		
29	18	GRN/YEL	18	GND L	—	15	GND B	—		
29	18	BLK/WHT	17	—	—	—	S2-1	—		

7010861-3

WIRE TABLE

ITEM NO.	DESCRIPTION		FROM			TO			SIGNAL
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH	
18	18	WHT	2	—	—	—	SI-3	—	
18	18	BLK	1	—	—	—	SI-1	—	
18	18	BLK	8	FL LOAD 1	—	3	CB-1	—	
18	18	BLK	4	SI-2	—	7	CB-2	—	
18	18	WHT	5	SI-4	—	6	FL LOAD 2	—	
18	18	GRN	11	—	—	—	GND B	—	
6	18	WHT	—	—	—	—	FL LINE 4	—	
6	18	BLK	—	—	—	—	FL LINE 3	—	
6	18	GRN	—	—	—	—	GND A	—	

7010861-4 & -5

WIRE TABLE

ITEM NO.	DESCRIPTION			FROM			TO			SIGNAL
	AWG	COLOR	POINT	CONNECTION	WITH	POINT	CONNECTION	WITH		
19	18	BLK	1	—	—	—	S2-4	—		
19	18	GRN	2	—	—	—	GND B	—		
26	18	BLK	2	—	—	—	S1-1	—		
19	18	BLK	17	CB-1	—	18	FL LOAD 1	—		
27	18	WHT	3	—	—	—	S1-3	—		
26	18	BLK	1	—	—	—	S2-2	—		
26	18	BLK	3	—	—	—	S2-3	—		
19	18	WHT	14	—	—	—	S2-8	—		
27	18	WHT	1	—	—	—	S2-6	—		
19	18	<del>BLK</del> WHT	11	—	—	—	S2-1	—		
27	18	WHT	2	—	—	—	S2-7	—		
19	18	WHT	13	—	—	—	S2-2	—		
7	18	BLU	—	—	—	—	FL LINE 4	—		
7	18	BRN	—	—	—	—	FL LINE 3	—		
7	18	<del>GRN</del> YEL	—	—	—	—	GND A	—		
19	18	BLK	21	CB-2	—	22	S1-2	—		
19	18	WHT	19	FL LOAD 2	—	20	S1-4	—		

REVISIONS		
CHK	CHANGE NO.	REV.

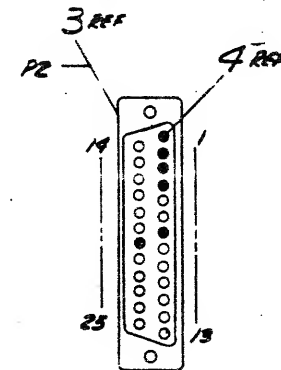
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WIRE TABLE						
ITEM NO	QTY	COLOR	FROM		TO	
			CONNECTION	WITH	CONNECTION	WITH
1	24	GRN	P2-H1	SOLDER	P1-1	WIRE
		BLU	P2-H2		P1-2	
		RED	P2-H3		P1-3	
		WHT	P2-H4		P1-4	
		BLK	P2-H5		P1-7	
1	24	GRN	P2-H6	SOLDER	P1-20	WIRE

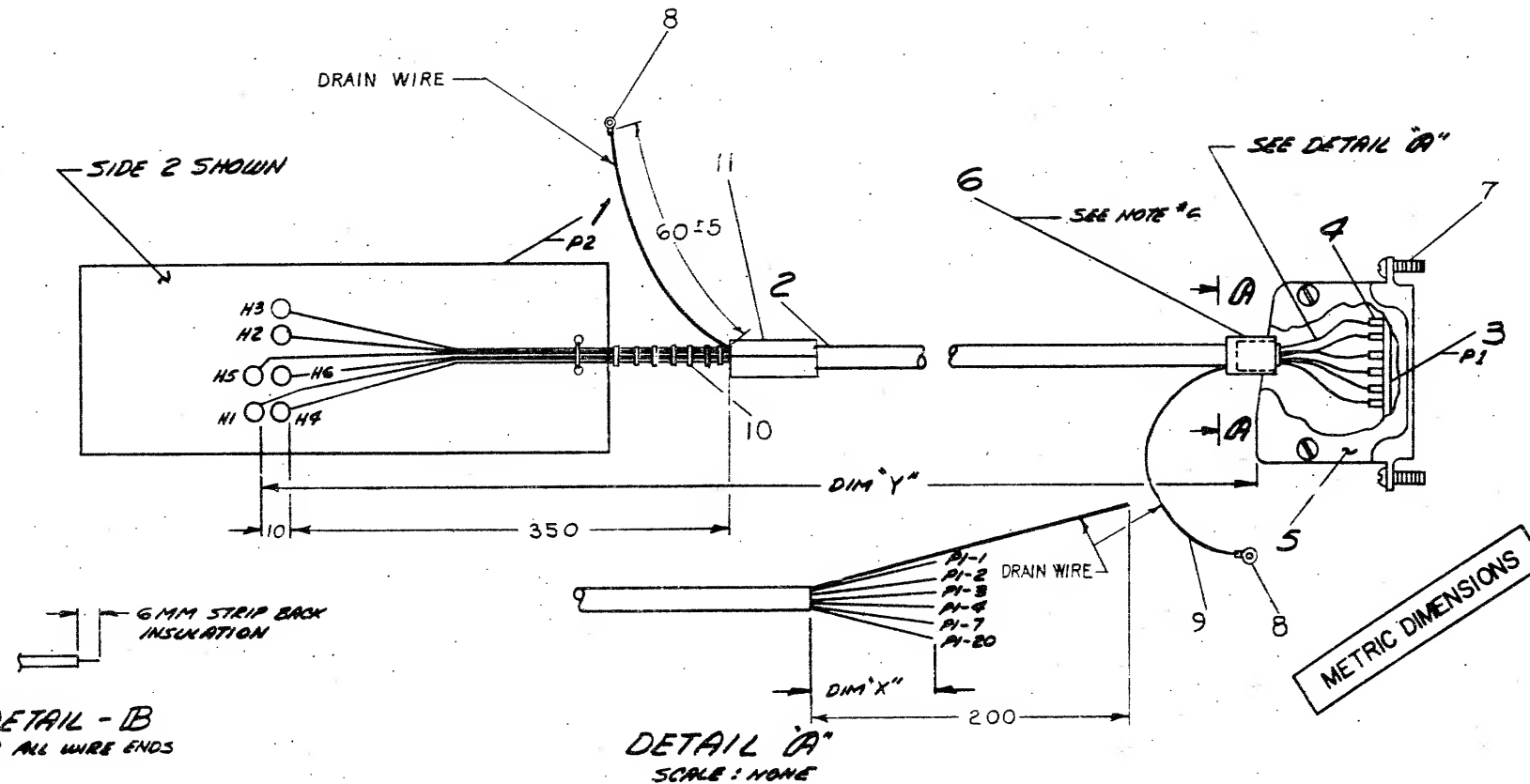
LEGEND		
NUMBER	VARIATION	
	DIM "X"	DIM "Y"
BN52A-7F	25MM ± 10MM	7600MM ± 50MM

#### NOTES:

1. ALTERNATE PARTS FOR ITEMS 3, 4 AND 5 ARE 1205885 HOOD AND 1205886 FOR THE CONNECTOR.
2. ALTERNATE CABLE NO IS 9107578
3. ALL WIRES ARE SOLDERED ON SIDE 2 OF ITEM #1
4. CRIMPING TOOL IS J-100 CA AMPHENOL NO. 357-100 WITH NO. 357-300-2 CONTACT LOCATOR.
5. BN52A-7F IS A 25 FOOT CABLE ASSY.
6. USE 2 LENGTHS OF 9107685-09 (ITEM #6) TUBING OVER END OF CABLE WHEN USING ALTERNATE CONNECTOR, 25.4 MM AND 31.75 MM LONG.
7. ALTERNATE METHOD OF TERMINATING SHIELD IS TO REPLACE RING TERMINAL 1214628 WITH RING TERMINAL 9007928 AND USE SHIELD ITSELF IN PLACE OF DRAIN WIRE. TUBING 9107256 NOT USED.



VIEW A-A  
WITH HOOD REMOVED  
SCALE: NONE  
(REAR VIEW)

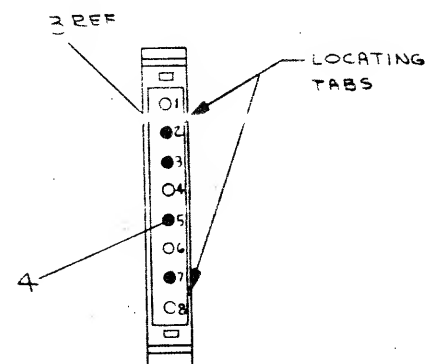


1	SLEEVE, CABLE	3-MD-7419728-0-0	11
8	TIE WRAP	9007031	10
NR	SLEEVE TWT	9107256-00	9
2	RING, TONGUE, TERMINAL	1214628-00	8
2	SCREW AND RETAINER	1210493-51	7
NR	SHRINKABLE TUBING	9107685-09	6
1	HOOD STRAIN RELIEF	1210493-50	5
6	MALE PIN	1210493-39	4
1	SHELL AND INSERT	1210493-31	3
NR	CABLE 6 CONDUCTOR	9107733-0-0	2
1	EIA CARD	5411948-1-0	1

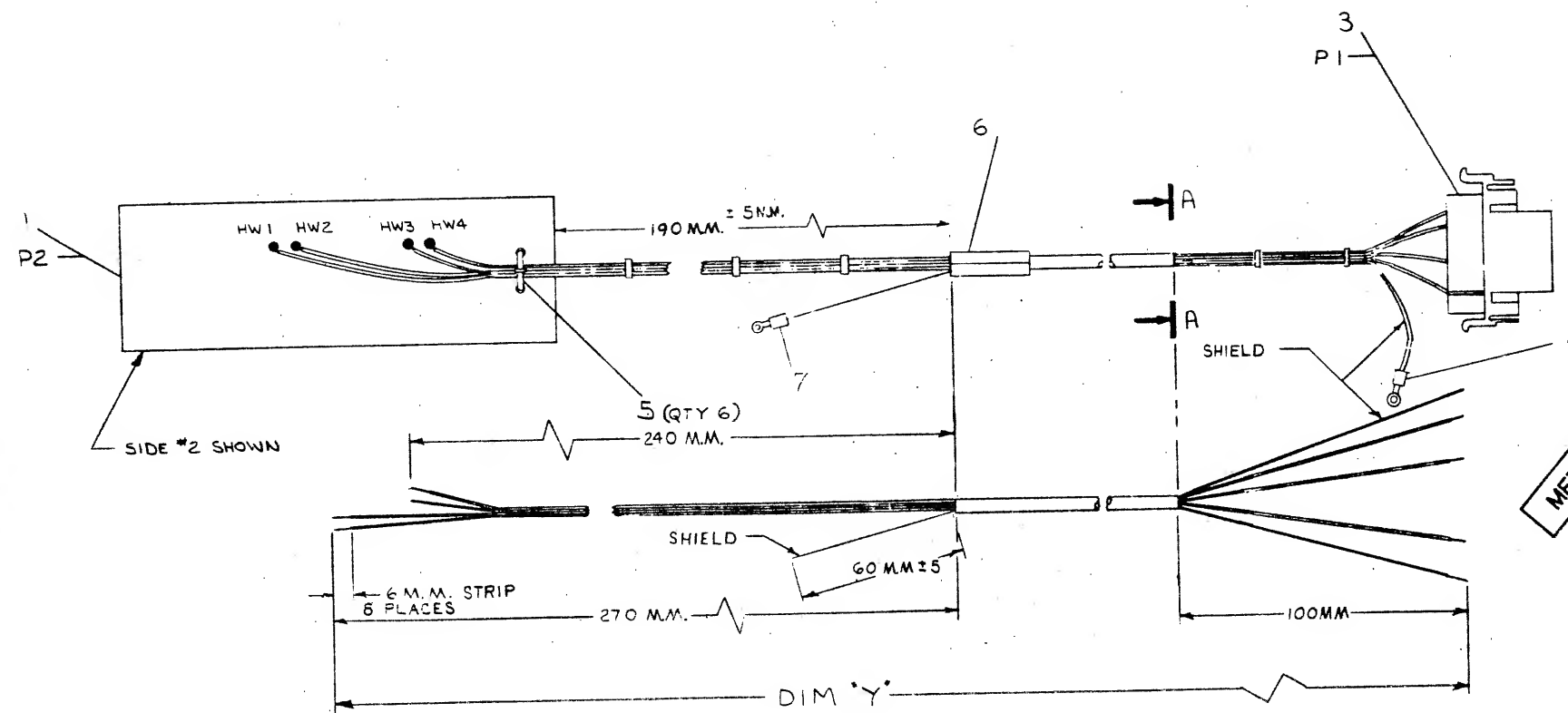
QUANTITY & VARIATION		DESCRIPTION	DWG/PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS				
ANGLES		CLASS OF ACCURACY		
10° 30'		NOMINAL DIMENSION RANGE MILLIMETER		
SURFACE QUALITY		CHECK DIMS	1 TO 25	25 TO 100
MEDIUM			100 TO 300	300 TO 1000
PREFERRED			1000 TO 2000	2000 TO 10000
THIRD ANGLE PROJECTION		FIRST USED ON		
REMOVE BURRS AND BREAK SHARP CORNERS		VT52		
DO NOT SCALE DWG		TITLE		
MATERIAL		VT52 EIA CARD AND CABLE ASSEMBLY		
FINISH		SIZE CODE		
SEE PARTS LIST		1 IA BN52A-0-0		
		NUMBER		
		1		
		REV.		
		H		

LEGEND	
NUMBER	DIAMETER PRE-CUT (REF)
BN52B-04	4.0 M.
BN52B-7F	7.6 M.

NOTE




VIEW A-A  
SCALE: NONE  
REAR VIEW



7  
METRIC DIMENSIONS

2	2	TERMINAL, RING TONGUE	9007928	7
1	1	SLEEVE, CABLE	3-MD-749728-0-0	6
6	6	TIE WRAP	9007031	5
4	4	TERMINAL, PIN CONTACT	1209378-03	4
1	1	CONSL. PANEL MOUNT, 8 PIN	1209340-01	3
AWR	AIR	CABLE, 4 COND. #22 AWG STD.	17000377-00	2
1	1	20 MA ADAPTER CARD	D-CS-5411759-0-1	1

		DESCRIPTION		DWG./PART NO.		ITEM NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS							
ANGLES 30° 30'		CLASS OF ACCURACY (CHECK ONE)		NOMINAL DIMENSION RANGE MILLIMETER			
				OVER 30 TO 60	OVER 60 TO 100	OVER 100 TO 150	OVER 150 TO 200
SURFACE QUALITY IN		MEDIUM	<input type="checkbox"/>	H6.1	H6.2	H6.3	H6.4
		PREFERRED	<input checked="" type="checkbox"/>	H6.3	H6.4	H6.5	H7.0
QUANTITY & VARIATION		MICROCHIPS					
THIRD ANGLE PROJECTION		DRW. <i>R. B. J.</i>		7-7-75		FIRST USED ON	
		CHKD. <i>[Signature]</i>		7-3-75		VT52	
		ENG. <i>[Signature]</i>		7-7-75		TITLE	
REVISIONS AND BREAK SHARP CORNERS		PROJ. ENG. <i>[Signature]</i>		7-7-75		20 MA.	
DO NOT SCALE DWG		PROD. <i>[Signature]</i>		7-7-75		ADAPTER ASSY	
		NEXT HIGHER ASSY.					
MATERIAL SEE PARTS LIST		B-LA-VT52-S-B		SIZE CODE		NUMBER	
FINISH		SCALE 1/1		1		IA BN52B-0-0	
		SHEET		OF		REV.	
				DIST.			

CASE	CHARGE NO.	REV.
17	BNS-8 - 00001	A
17	M. WILLIAMS	
17	VTS- PNOO7 B	
17	J BITTIO	
17	WTS-2-PNO13 C	
17	J DESUK	
17	VTS- PNO23 D	
17	J DESUK	

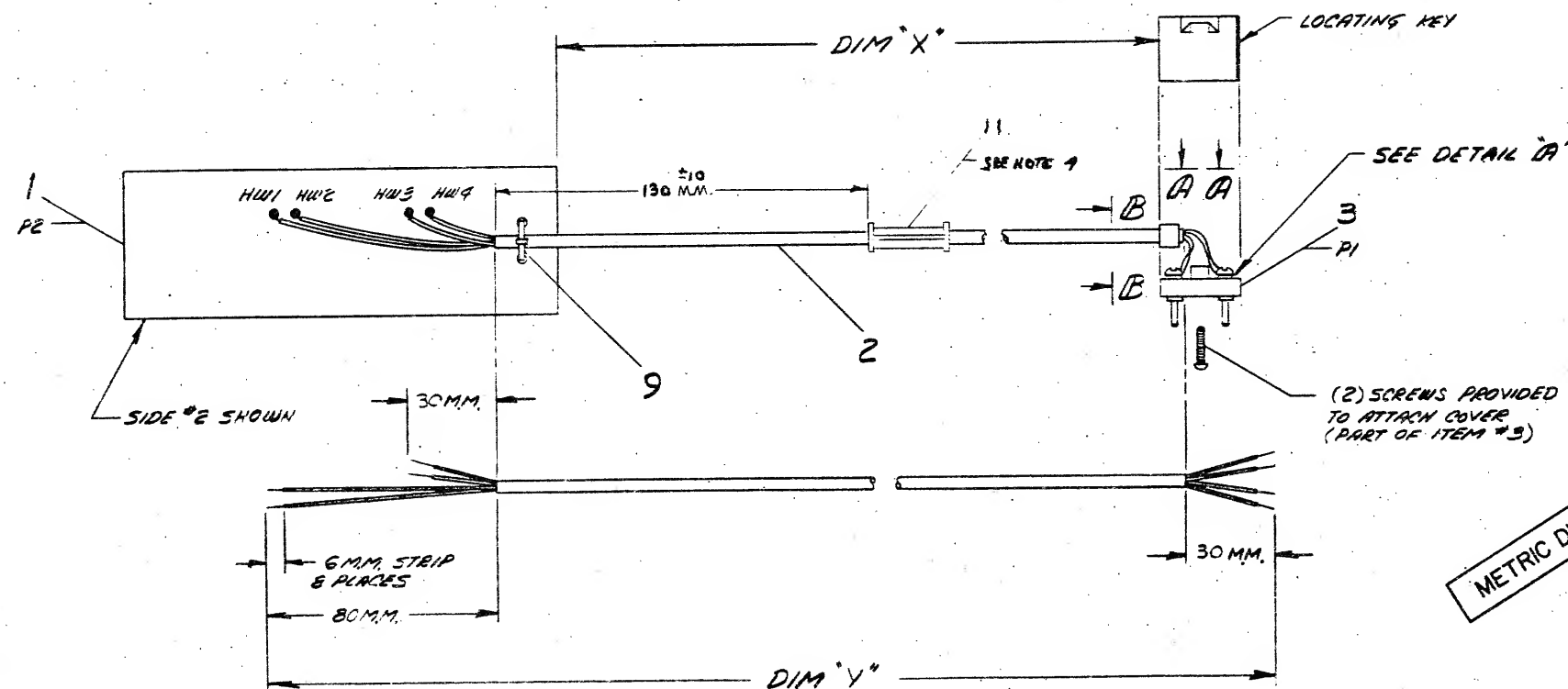
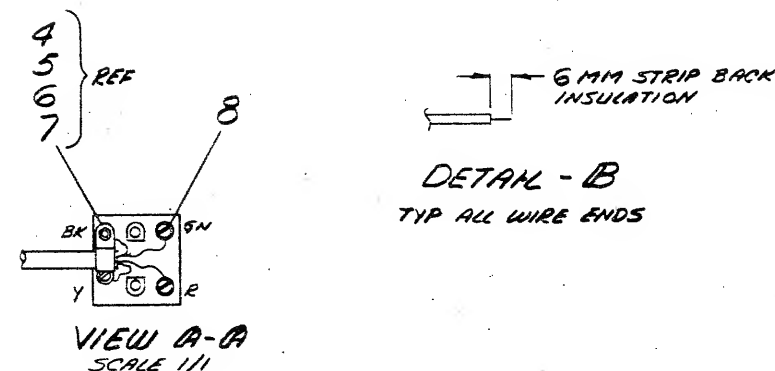
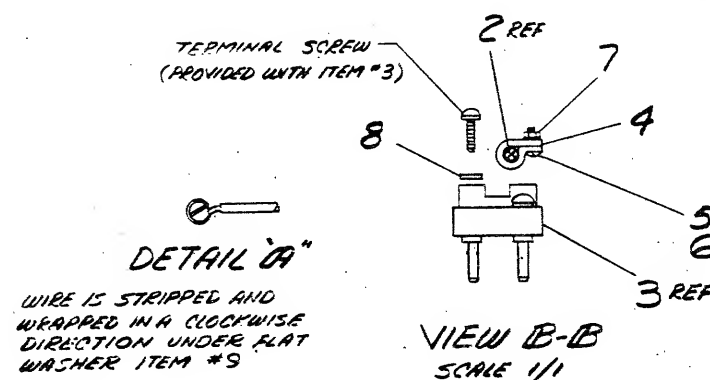
WIRE TABLE							
ITEM NO	DESCRIPTION	FROM	TO	SIGNAL			
NO	HWG	COLOR	CONNECTION	WITH	CONNECTION	WITH	NAME
2	22	BLK	PI-Y	*	PE-HW2	SOL	RX-
1	1	RED	PI-R	*	PE-HW3	1	TX-
1	1	WHI	PI-W	*	PE-HW1	1	RX+
2	22	GRN	PI-GN	*	PE-HW3	SOL	TX+

\* SEE NOTE #3

LEGEND		
NUMBER	DIM X VARIATION	DIM Y PRE-CUT (REF)
BN52C-09	3.9 M	9.0 M
BN52C-7F	7.5 M	7.6 M

# NOTES:

1. DISCARD SMALL SCREW SUPPLIED WITH PLUG (ITEM #3)
2. ATTACH CABLE (ITEM #10) TO CABLE WITH ONE (1) CABLE TIE (ITEM #9). DO NOT REMOVE CABLE FROM BAG.
3. ATTACH WIRES INDICATED BY (\*) ASTERISK TO ITEM #3, USING ITEM #10 AND SCREWS SUPPLIED WITH ITEM #3.
4. ASSEMBLE SPACER, BEFORE SOLDERING CABLE TO ITEM #1.



METRIC DIMENSIONS

ITEM	DESCRIPTION	QTY	ITEM NO.
1	SPACER, CABLE	1	11
1	CONN. TELEPHONE (JACK)	1	10
1	TIE WRAP	1	9
4	WASHER, FLAT #4	4	8
1	NUT, NYLON #4-40	1	7
1	SCR. NYLON BMD. #4-40X.38	1	6
1	WASHER, FLAT NYLON #4	1	5
1	CABLE CLAMP .12	1	4
1	CONN. TELEPHONE (PLUG)	1	3
1	CABLE, 4 COND #22 AWG	1	2
1	20 MA ADAPTER CARD	1	1

THIRD ANGLE PROJECTION		FIRST USED ON	
REMOVE BURRS AND BREAK SHARP CORNERS		VT52	
DO NOT SCALE DWG		NEXT HIGHER ASSY.	
MATERIAL		SIZE CODE	
SEE PARTS LIST		1 IA BN52C-0-0	
FINISH		SHEET 1 OF 1	
DIST.		REV. B	



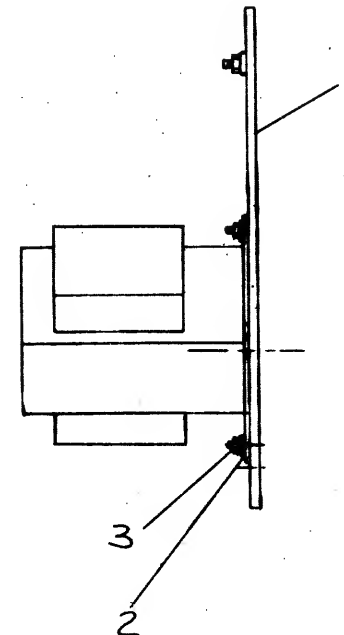
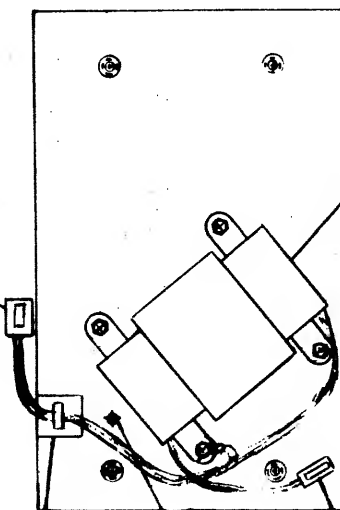
1 2 3 4

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9 PIN  
CONN REF

4 PIN CONN REF

GND



1	HARNESS, TRANSFORMER	1-IA-7012161-0-0	6
1	TIE MOUNT	90 08264-00	5
1	CABLE TIE	90 07032-00	4
4	NUT, #8-32 KEP	90 06563-00	3
4	WASHER, FLAT	90 06660-00	2
1	PLATE, MTG, TRANS.	2-IA-7414867-0-0	1

						DESCRIPTION		DWG./PART NO.		ITEM NO.					
						UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS									
						ANGLES ±0° 30'	CLASS OF ACCURACY (CHECK ONE)	NOMINAL DIMENSION RANGE MILLIMETER							
								OVER 1 TO 5	OVER 5 TO 30	OVER 30 TO 100	OVER 100 TO 300	OVER 300 TO 1000	OVER 1000 TO 2500		
QUANTITY & VARIATION		SURFACE QUALITY IN  MICROINCHES		MEDIUM <input type="checkbox"/>	±0.1	±0.2	±0.3	±0.4	±0.6	±1.0					
				PREFERRED <input type="checkbox"/>	±0.3	±0.4	±0.6	±1.0	±1.6	±2.5					

THIRD ANGLE PROJECTION	DRN. <i>P.C. Goodhue</i> 9-10-75	FIRST USED ON	VT50
REMOVE BURRS AND BREAK SHARP CORNERS	CHK'D <i>R.C.</i> 10/16/75	TITLE	TRANSFORMER ASSEMBLY
DO NOT SCALE DWG	PROJ. ENG. <i>yeach</i> 12/10/75	SIZE	2
MATERIAL SEE PARTS LIST	PROD. <i>DD</i> 12/10/75	CODE	AD7011852-0-0
FINISH	NEXT HIGHER ASSY.	NUMBER	
	0-UA-VT52-0-0	DIST.	
	SCALE NONE		
	SHEET 1 OF 1		

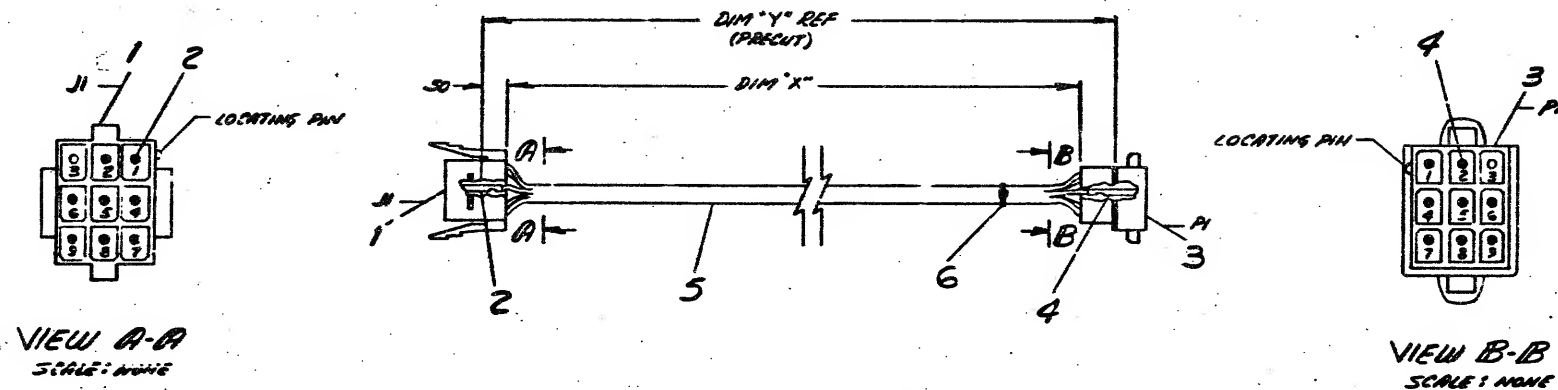
METRIC DIMENSIONS

REVISIONS	REV.
CHANGE NO.	
CHK	

LEGEND	
NUMBER	VARIATION
<del>XXXX</del>	<div> <div> DIM "X" </div> <div> DIM "Y" REF </div> </div>
	<div> <div> 14 IN ± 3 IN </div> <div> 15 IN ± 1 IN </div> </div>

NOTES:

1. ALL CONNECTIONS TO BE MADE  
POINT TO POINT (J1-1 TO P1-1) ETC.



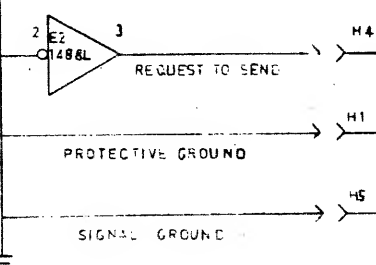
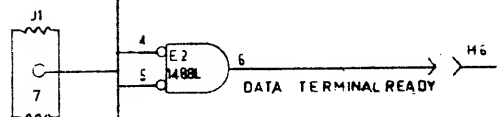
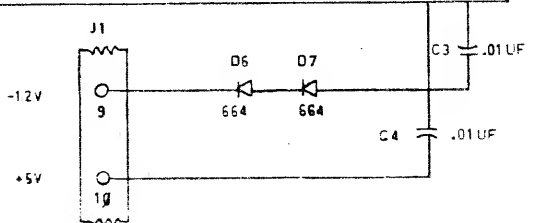
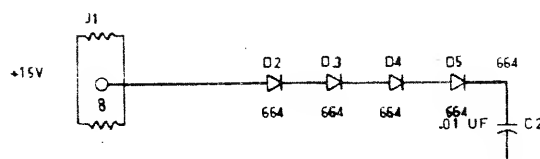
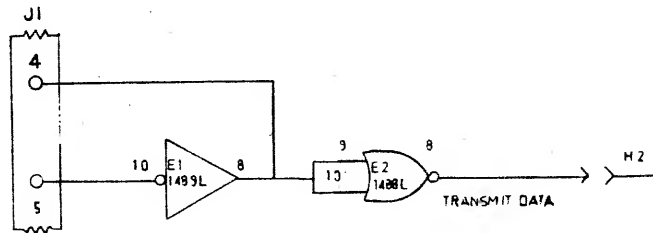
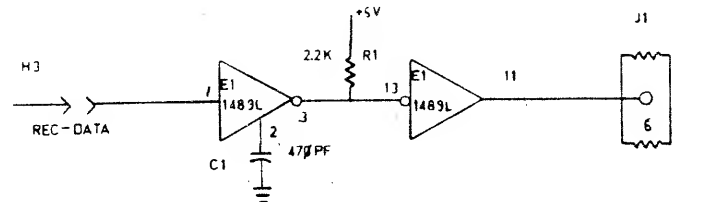
3R	WIRE, *18 AWG BLUE/BLK	9107910-60	10
4R	WIRE, *18 AWG BLUE	9107360-66	9
5R	WIRE, *18 AWG YD/BLK	9107940-70	8
6R	WIRE, *18 AWG VIO	9107360-77	7
7R	WIRE, *18 AWG GRN	9107360-55	6
8R	TIE WRAP	9007031-00	5
9	PAK, TERMINAL	1209378-00	4
1	PHL. NOUNS	1209351-23	3
8	SOCKET, TERMINAL	1209379-00	2
1	SOCKET, NOUNS	1209350-09	1

[illegible]





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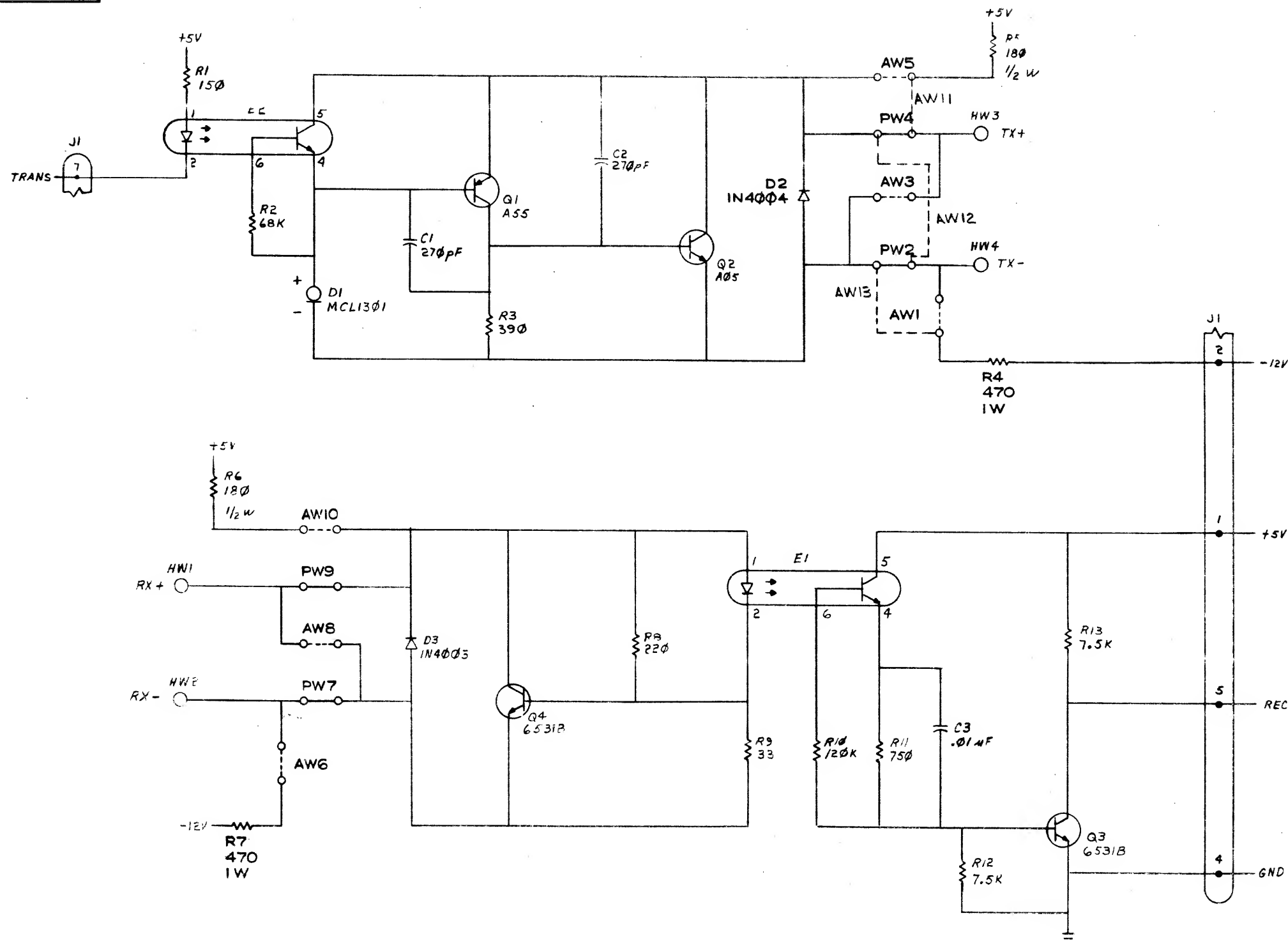
REVISIONS		
CHK	CHANGES	REV.





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1-0-6521149 2



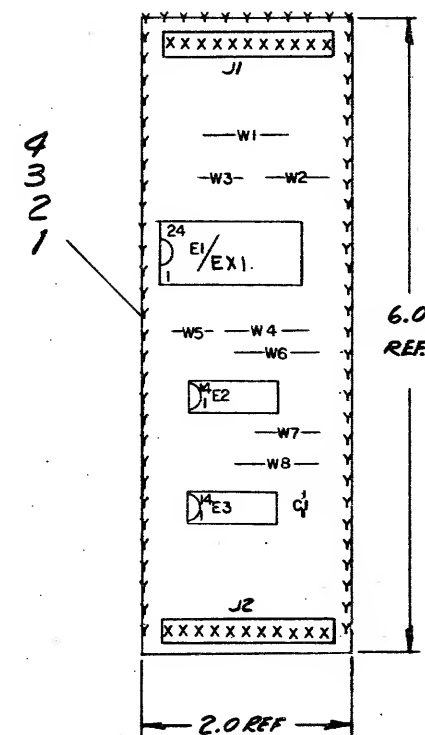
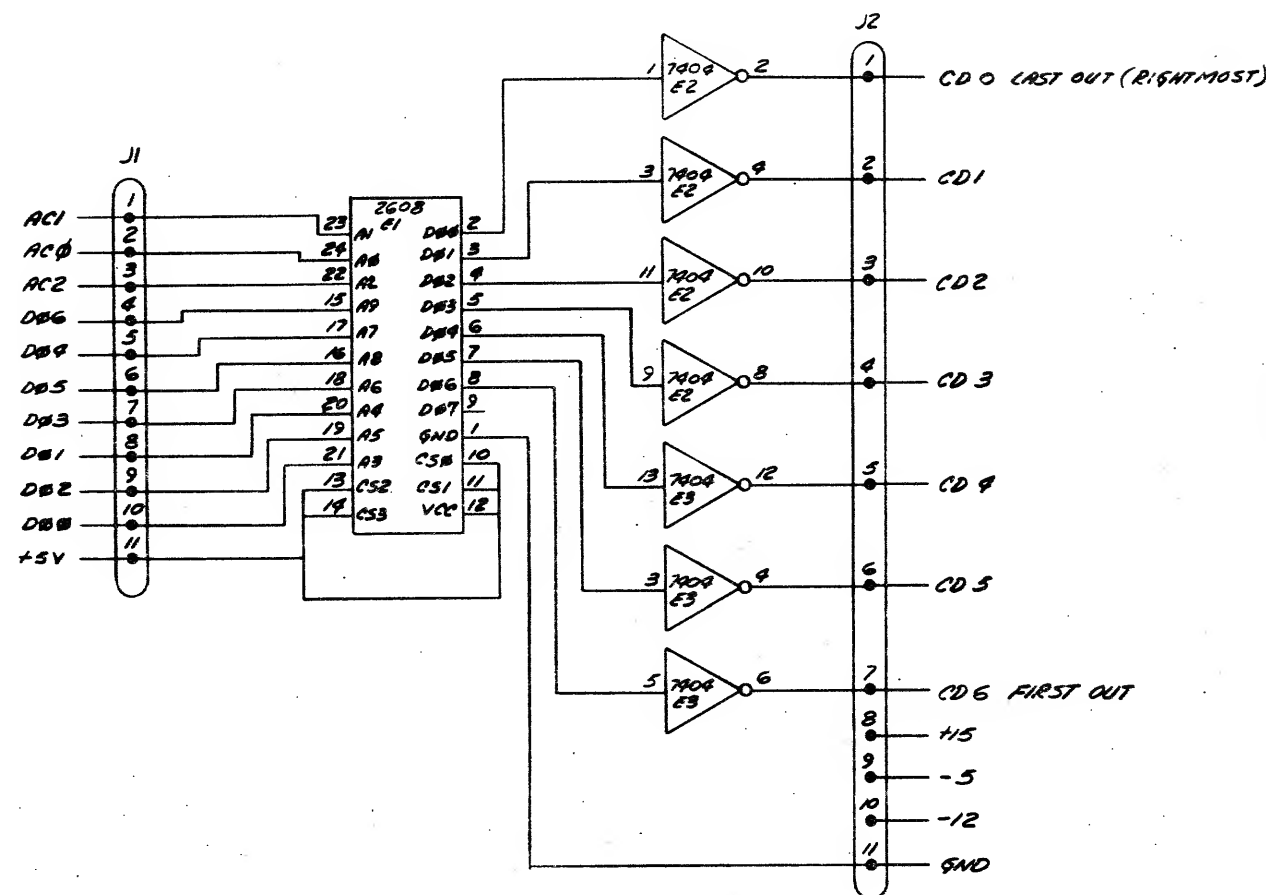
# NOTES:

1. HW = EYELETS FOR HARDWIRING POINTS
2. AW JUMPERS ARE OPTIONAL JUMPERS
3. TO CONVERT FROM PASSIVE TO ACTIVE MODE, DELETE JUMPERS PW2, PW4, PW7 & PW9. ADD JUMPERS AW1, AW3, AW5, AW6, AW8 & AW10.
4. FOR VT61T ONLY, TO CONVERT FROM PASSIVE TRANSMIT TO ACTIVE TRANSMIT, DELETE JUMPERS PW2 & PW4, ADD JUMPERS AW11, AW12 & AW13 INSTEAD OF AW1, AW3 & AW5. USE ITEM 26, TUBING (9107256-00) WITH JUMPERS.

REV. 1.00

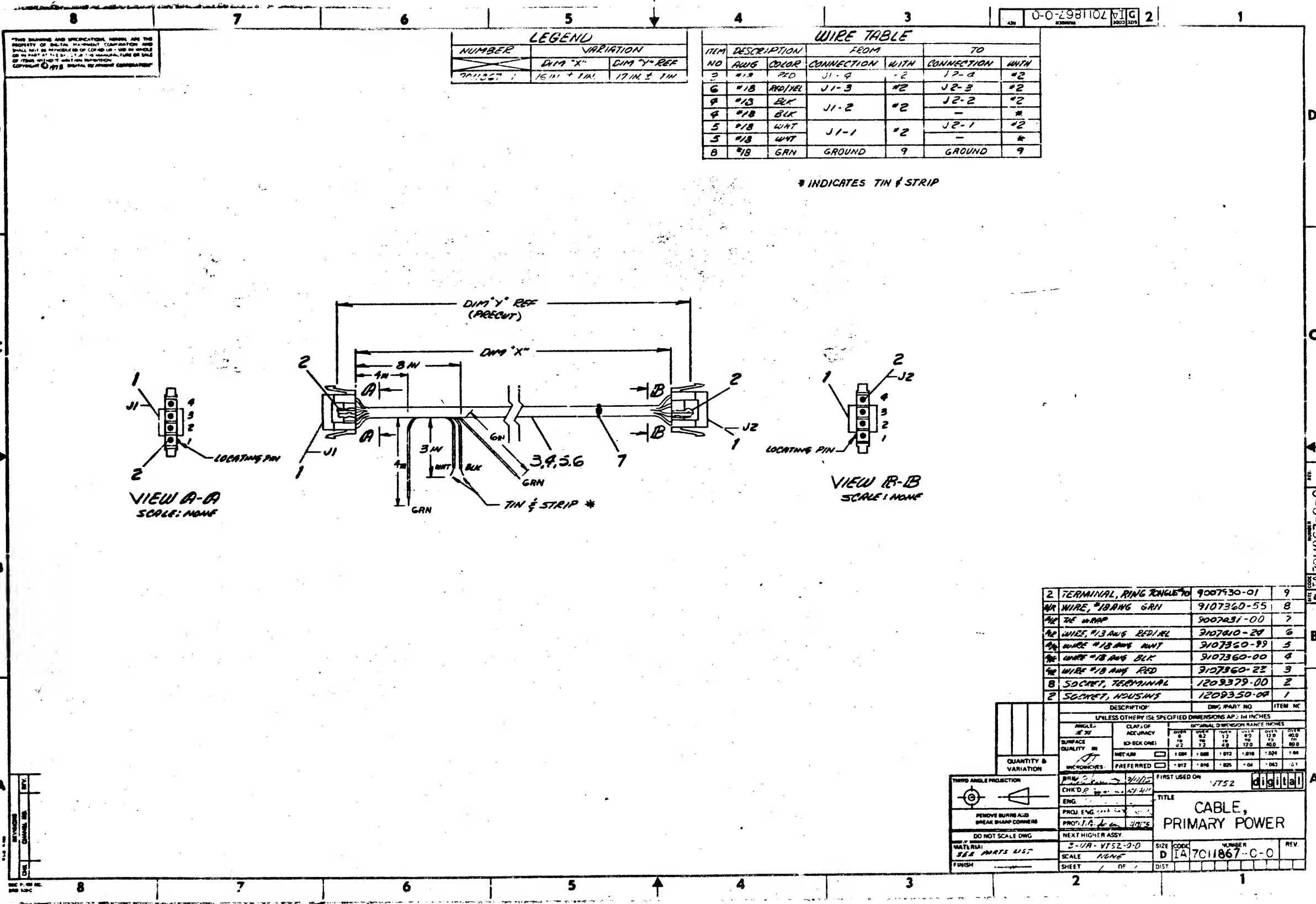
TITLE 20MA ADAPTER CARD SIZE/DATE NUMBER 1-0-6521149 2

1. JUMPERS W3, W5 ON .4 CENTERS  
JUMPERS W2, W7 ON .6 CENTERS  
JUMPERS W1, W4, W6, W8 ON .8 CENTERS



REF	REF	DESCRIPTION	QUANTITY	UNIT
REF	REF	X-Y COORDINATE HOLE LOCATION	KCO-5011815-0-9	1
REF	REF	ASSY/DRILLING HOLE LAYOUT	EAN-594815-0-5	2
REF	REF	MODULE ECO HISTORY	BAN-5911815-0-6	3
1	1	ETCHED CIRCUIT BOARD	5011819	4
1	1	C1	CRP. 01A5 100V 20% DISC	1001610-G1
2	2	62, 63	IC. DEC 7409	1909686
-	1	E1	I.C. DEC 2608	2300284
A/R	M2	W1 THRU W8	JUMPER	9107780-01
A/R	A1, J2	HEADER, 11 POSITION	1212519	8
1	-	EX1	SOCKET, IC 24 PIN	1210693-00

[illegible][illegible]



LEGEND		
NUMBER	DIM 'X'	DIM 'Y' REF
1	15 IN ± 1 IN	17 IN ± 1 IN

WIRE TABLE						
ITEM NO	DESCRIPTION		FROM		TO	
	AWG	COLOR	CONNECTION	WITH	CONNECTION	WITH
1	#18	RED	J1-9	#2	J2-8	#2
2	#18	RED/YEL	J1-3	#2	J2-3	#2
3	#18	BLK	J1-2	#2	J2-2	#2
4	#18	BLK	J1-2	#2	-	#
5	#18	WHT	J1-1	#2	J2-1	#2
6	#18	WHT	J1-1	#2	-	#
7	#18	GRN	GROUND	9	GROUND	9

\* INDICATES TIN & STRIP

2	TERMINAL, RING TONGUE	9007930-01	9
WIRE, #18 AWG GRN	9107360-55	8	
WIRE, #18 AWG RED	9007231-00	7	
WIRE, #18 AWG RED/YEL	9107410-29	6	
WIRE, #18 AWG WHT	9107360-99	5	
WIRE, #18 AWG BLK	9107360-00	4	
WIRE, #18 AWG RED	9107360-22	3	
8	SOCKET, TERMINAL	1209379-00	2
2	SOCKET, HOUSING	1209350-00	1

QUANTITY & VARIATION		DESCRIPTION		DIM PART NO		ITEM NO	
THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
REMOVE BURRS AND BREAK SHARP CORNERS		SURFACE QUALITY		MECHANICAL		ELECTRICAL	
DO NOT SCALE DIMS		FINISH		SCALE		SHEET	
MATERIAL: SEE PARTS LIST		FINISH: SEE PARTS LIST		SCALE: NONE		SHEET: 1 OF 1	
TITLE: CABLE, PRIMARY POWER		FIRST USED ON: VT52 digital		SIZE: 1/2" x 1/2" x 1/2"		REV: 1	
DRAWN: [Signature]		CHECKED: [Signature]		APPROVED: [Signature]		DATE: 10/1/67	